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Illinois, University of. High School Visitor

UNIVERSITY OF ILLINOIS BULLETIN

ISSUED WEEKLY

Vol. XIV April 16, 1917 No. 33

(Entered as second-class matter December 11, 1912, at the post-office at Urbana, Illinois, under the act of August 24, 1912.)

BULLETIN ON HIGH SCHOOL LIBRARIES BASED ON RECOMMENDATIONS MADE TO THE HIGH SCHOOL CONFERENCE

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ISSUED FROM THE

High School Visitor's Office

UNIVERSITY OF ILLINOIS

ed. by
H. A. Hollister

LIBRARY
JAN 17 1918
UNIVERSITY OF TORONTO

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
URBANA

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THE LIBRARY OF THE GIRLS' HIGH SCHOOL IN BROOKLYN, ONE OF THE BEST-EQUIPPED AND MOST UP-TO-DATE HIGH SCHOOL LIBRARIES TO BE FOUND ANYWHERE IN THE COUNTRY

FOREWORD

This bulletin has been made possible through the work done by various library committees of the High School Conference, and by the assistance of Miss Mary Hall, Brooklyn High School, New York, and the Faculty of the University of Illinois Library School.

It is the first effort at what we hope to make a very useful help to the high schools in a department of the work which has been much neglected in our state.

It is far from ideal as yet; but we hope to be able to publish a revision in about two years. To do this successfully we shall need to be able to profit by the experience of high schools in using the bulletin, and to this end we shall appreciate suggestions and criticisms.

Some of the lists are very good, while others will need to be considered carefully in making selections on account of the heavier books listed.

As far as possible teachers and principals are advised to select books which are best adapted to the capacity of high school pupils.

Several of the lists were evidently chosen with the teacher chiefly in mind, and are not so well adapted for reference work by the pupils.

We believe it highly essential to successful high school instruction that each high school develop, as rapidly as possible, a good working library that is commensurate with the size of the school and also with the extent of work which the high school undertakes to teach.

A STANDARD FOR MINIMUM LIBRARY EQUIPMENT

Following is a scale for determining a minimum library equipment for an accredited four-year high school of 50 pupils or less:

General references, dictionaries, encyclopedias, etc.	$100.00
English language and literature	50.00
History, civics, geography	50.00
Foreign languages	25.00
Physical and biological sciences	25.00
Mathematics	15.00
Music	10.00
Periodicals (annually)	15.00
Professional books (teachers')	10.00
	$300.00

This is assuming a three-teacher school with no courses in such subjects as agriculture, domestic science, manual training or commerce.

The scale for these in a school of the above type as to size should be added as follows:

For Agriculture	$25.00
For Domestic Science	25.00
For Commerce	15.00
For Manual Training	10.00
	$75.00

In such a school located in a community not having a public library, an additional $100, at least, should be added for good reading material of general character suited to pupils of high school age. All books selected should possess definite educational value.

As not more than two of the above named vocational subjects should ever be included in the curriculum of a three-teacher school, this would bring the highest minimum for a school of 50 pupils up to $450.00. Such an equipment would make a good basis upon which to build, but the work should not stop here. There should be added each year at least $50 to $100 in carefully selected, up-to-date books.

For an additional 25 pupils the amount should be increased by at least one third; and for each additional 50 pupils the amount should be increased by $200 to $400, with corresponding additions for each new vocational subject added, as shown by the scale.

The general reading and periodicals should have a proportionate increase, as should also the professional literature for teachers.

The above basic estimate does not include the maps, and other helps, literature on equipment of libraries, library furnishings, etc., as suggested by Miss Hall and the University Library School.

SUGGESTIONS AND GENERAL HELPS

The accompanying lists include books selected primarily to serve as supplementary reading in the several high school subjects. Four inexpensive guides which are extremely helpful in the selection of books are mentioned below. These are thoroughly and carefully annotated and give the purchaser an accurate evaluation of the books they include. The four are Miss Wilson's Books for high schools, the A. L. A. catalog and its supplement, the A. L. A. catalog 1904-11, and Miss Kroeger's Guide to reference books.

Ordering: Books for the high school library may be ordered through the local book dealers or from A. C. McClurg & Co., Chicago. As a rule it is wiser to avoid buying of the travelling book agents who sell compilations, anthologies, dictionaries, cyclopedias and atlases. Besides the author and title of each book desired the order list should include, if possible, the following items: Publisher, date and price.

When the shipment is received the books should be checked with the bill to avoid errors or omissions. It is advisable to enter in each book, usually on the page following the title page, the date of the bill, the agent's name and the cost of the book.

Stamping and Plating: Before the books go on to the shelves they should be stamped with the name of the library. Ordinarily this should appear on the title page, on the first page of the text and once more in the body of the book. Illustrations and maps should also be stamped. A book plate or label bearing the name of the high school library should be pasted inside the front cover, and if the book is to be cataloged a label is often pasted on the back; on this label the call number of the book is written.

Accessioning: For the accession book, which is a chronological list of the volumes in the library, almost any good sized blank book can be used, but the library supply houses have for sale accession books in which each line is numbered and appropriate columns are ruled. As this is a record not merely of the titles, but of the volumes in the library,

each volume should have a separate line. The author, title, publisher, date and price should be entered. The accession number, which must be copied into the book, should always appear in the same place in every book, for example in the lower margin of the first page following the title page.

Classifying: If it is desirable to classify the books, the Dewey-Abridged decimal classification may be used or a simplified form of it, which was arranged by Miss Cornelia Marvin for the high schools of Oregon, and which may be found in Miss Wilson's Books for high schools.

Cataloging: The best cataloging aid now available to the high school librarian who has not had training is Miss Theresa Hitchler's Cataloging for small libraries (A. L. A. publishing board, $1.25).

Charging: Three simple charging systems are described in Mr. Ward's pamphlet, The high school library.

Repairing and Binding: Two American Library Association pamphlets, costing 15c each, give very practical assistance on these two questions; A. L. Bailey, Binding for small libraries, New edition 1915; and Margaret W. Brown, Mending and repair of books.

Co-Operation With the Public Library: The high school should endeavor to co-operate in as many ways as possible with the public library. For example, such co-operation will obviate for both the unnecessary duplication of books, and will save the high school the expense of reference sets which will have only a limited use by its students.

Further Aids: The titles listed below will give additional helpful information.

Gilbert O. Ward, The high school library. A. L. A. publishing board. 1915 ..... $0.10

McKnight and Dana, The high school branch of the public library. Woodstock, Vt., Elm tree press. 1913 ..... .50

Martha Wilson, Books for high schools. A. L. A. publishing board ..... .50

Frank K. Walter, Periodicals for the small library. A. L. A. publishing board ..... .10

A. L. A. Catalog, Superintendent of documents, Washington, D. C., paper. (Send money in advance) 1.00

A. L. A. Catalog, 1904-11, a supplement to the above. A. L. A. publishing board. Cloth 1.50

ALICE B. KROEGER, Guide to reference books. A. L. A. publishing board ..... $ 2.15

For advice or further information write to:

Illinois Library Extension Commission, Springfield.

University of Illinois Library School, Urbana.

American Library Association, 78 East Washington Street, Chicago.

Professor H. A. Hollister, High School Visitor, University of Illinois, Urbana.

Dealers:

Library Bureau:

6 North Michigan Avenue, Chicago, Ill.

316 Broadway, New York City.

43 Federal Street, Boston,

Library supplies and Library furniture.

Democratic Printing Company:

Madison, Wis.

Library Supplies.

Gaylord Brothers:

506½ South Clinton Street, Syracuse, N. Y.

Magazine and pamphlet binders, filing cabinets and miscellaneous library supplies.

SUPPLEMENTARY LIST, BY MISS MARY HALL, BROOKLYN, N. Y., HIGH SCHOOL LIBRARY, OF SOME INEXPENSIVE HELPS IN MAKING A HIGH SCHOOL LIBRARY EFFECTIVE

Aids in selecting books, periodicals, pictures, etc.

Fay, Luay and Eaton. Use of books and libraries. 1915. Boston Book Co., Boston. $2.25.

Contains excellent list of books for the small high school. Also list of periodicals, sources of illustrative material. Methods of caring for a school library, etc. Can be consulted at almost any good public library. An expensive book to buy but well worth while.

Oregon Library Commission. Books for high school libraries. Salem, Ore. 25c.

Excellent for the small high school.

U. S. Bureau of Education. List of books suited to a high school library,

compiled by the University High School, Chicago. Washington, D. C. 1913. 10c.

Best suited to the city or township high school.

University of the State of New York. *School Libraries Division.*

Annotated book lists for secondary schools.
English Section
Commercial Section
History Section
State Education Building, Albany, N. Y. 1914.
These lists endeavor to keep in mind the small high school.

Wilson, Martha. Books for high school libraries. American Library Association, 78 E. Washington Street, Chicago. 50c.

Excellent for the small rural or town high school.

Wisconsin. Department of Education. Lists of books for high school libraries. 1911. 25c. Supplement. 1911-12. 15c. Madison, Wisconsin.

Supplement has special list for agricultural high schools.

List of books for home reading.

Boy Scouts of America. Boys' books; a list of books which boys like. Boy Scouts' Headquarters. New York City.

Note: Can be had at Chicago Public Library.

National Council of Teachers of English. Report of the Committee on Home Reading. Chicago Univ. Press. 10c.

Newark Public Library. Newark, N. J. Reading for pleasure and profit. 1913. 10c.

The home reading list of the Barringer High School, Newark.

Power, Effie. List of books for older girls. St. Louis Public Library. 1914.

Useful for first year in high school.

Vocational guidance.

Grand Rapids, Michigan, Public Library. List of books used by Jesse B. Davis in vocational and moral guidance in the English department, Central High School, Grand Rapids.

Hall, M. E. Vocational guidance through the library. American Library Association, 78 E. Washington Street, Chicago. 10c.

Lists inexpensive pamphlets available.

Illustrative Material.

Schulwart catalog. G. E. Stechert. New York. 65c.

Lists most of the large colored pictures exhibited at University of Illinois.
Pictures for *all* departments of high school.

Thompson Publishing Co., Syracuse, N. Y. Art reproductions: a catalog of blue prints. 1 cent each.

Useful for Ivanhoe, Shakespeare, etc.

Mackintosh & Co. Catalog of lantern slides. Chicago, Ill.
Underwood & Underwood. The world visualized.

Note: A carefully classified list of slides useful in English, History, Manual Training, Biology, Domestic Science and all departments of the high school; compiled by Frank McMurry, Columbia University.

Detroit Photographic Co., Detroit, Mich. Little phostint journeys. Collections of post cards illustrating different places of interest; e. g., Yellowstone, Irving's home, Sunnyside, etc.

Large pictures in the Illinois exhibit which teachers wanted listed as to price and publisher.

		To be obtained from
Tournament (for Ivanhoe work) Lehmann	$ .65	G. E. Stechert, N. Y.
Weaver (for Silas Marner)...Teubuer	1.50	G. E. Stechert, N. Y.
Roman soldiers (for Julius Caesar) Lehmann	.70	G. E. Stechert, N. Y.
Ulysses and the cattle of the sun (Odyssey) .....Seeman	.75	G. E. Stechert, N. Y.
Hanfstaengl pictures for schools, each..	2.50	Franz Hanfstaengl, 33 W. 31st St., N. Y.
Julius Caesar (Shakespeare, Latin and History)		Pictures published by
King Arthur's Knights (Tennyson's Idylls)		Philip and Sons,
Crusaders (for Ivanhoe)		London
Baronial Hall (for Ivanhoe).....	1.25	Longmans, Green &
King John signing the Magna Charta for Ivanhoe)	.80	Co., 443 Fifth Ave., N. Y.

LIST OF INEXPENSIVE MAPS PUBLISHED BY NATIONAL AND STATE DEPARTMENTS

Exhibit prepared by the University of Illinois Library School.

Total cost, $7.50, unmounted. Average cost of mounting, 4c per square foot.

North America, Map, 29x38 in.....U. S. Geol. Survey $0.40
A fine map in color.

United States

Land Office map, 5x7 ft., mounted.....U. S. Supt. of Docs. 1.00
Shows the territorial expansion of the United States, by purchase and by treaty; the national parks, forest reserves, and Indian reservations. Inset maps of Alaska, Hawaii, the Philippines.

Map, 49x76 in. in 2 sections.....U. S. Geol. Survey .60
The Eastern and western sections, mounted separately, may be used in classrooms with little available wall space.

Explorations map, 23x32 in.....U. S. Supt. of Docs. .25
Shows, in color, early navigation and exploration routes and Indian trails.

Relief map, 18x28 in.....U. S. Geol. Survey .15
A fine map in color.

Contour map, 18x28 in.....U. S. Geol. Survey .15
A fine map in color.

Base map of Reclamation projects, No. 7549, 18x38 in....
.....U. S. Reclamation Serv. .10
Shows the reclamation projects and irrigable areas.

Map, 11x16 in.....U. S. Geol. Survey .05
Gives the principal cities in each state. The water features are shown in color.

Map, 8½x12 in.....U. S. Geol. Survey .01
Gives the capital and the larger cities in each state. The water features are in color. This map and the preceding map compare favorably, both in quality and in price, with other small outline maps.

Colorado

Land Office map, 29x34 in.....U. S. Supt. of Docs. .25
Shows counties, swamp and prairie land, Indian reservations, national parks and forest preserves. Insets show plotting of the large cities. These maps are available for the states and territories west of the Mississippi River, including Alaska and Hawaii, and for several eastern states.

Illinois

Land Office map, 33x19 in.....U. S. Supt. of Docs. $0.25

Shows counties, water courses, railroads, canals, swamp and prairie land.

Post route map, 33x48 in.....U. S. Post Office Dept. .80

Shows the counties, the water courses, the railroads, but not the highways. The distance between postoffices is given in figures. These maps are available for all of the states, and for Alaska, Hawaii, and the Philippines. The larger states are on two or more sheets.

Railroad map, 35x52 in., mounted....Ill. Pub. Utilities Com. Free

Shows the counties, the water courses; the railroads are in color, and the distance between stations is given in figures. The Illinois Public Utilities Commission issues a map every two years, printing 10,000 wall maps and 10,000 pocket maps.

Base map, 30x51 in., mounted.....Ill. Geol. Survey .44

Shows the counties, the water courses, and the railroads. The elevation above sea-level is given at frequent intervals. Map prepared in co-operation with the U. S. Geological Survey.

Geologic map, 36x53 in., mounted.....Ill. Geol. Survey .44

Shows, in color, the rock formation throughout the state; the coal, zinc, and fluorspar mines, and the petroleum and gas fields. This is a provisional map, as the final survey is not completed.

Indiana

Base map, 26x40 in.....U. S. Geol. Survey .15

In black and white. Shows counties, principal cities, towns and villages, and the railroad lines. Available for thirty-two states.

California, central section

International map, San Francisco Bay, No. North J10, 24x25 .....U. S. Geol. Survey .40

A world map, of about 1500 sheets, has been undertaken by the leading nations. Two of the U. S. sheets are completed. The scale is 1 in. to 16 miles. A handsome map in color.

Illinois

Crawford County

Post route map, scale 1 in. to a mile..U. S. Post Office Dept. .20

Maps are available for all counties in which rural delivery service has been completed. They show the railroads, highways, water courses, schools, churches, and farm residences.

St. Clair County, Ill. 36x36 in. mounted....Ill. Geol. Survey .40

Shows contours, the plotting of cities, railroads, highways, farm residences. The survey was made in co-operation with the U. S.

Geological Survey. St. Clair County is the only map as yet completed.

Davenport, Ia., Moline and Rock Island, Ill. 25x39 in.... .....U. S. Miss. River Com. $0.26

In black and white. Shows the plotting of the cities, and each city residence or other building. This Commission charts the Mississippi River from its source to its mouth.

Chicago Lake Front, No. 1, 32x40 in..U. S. Lake Survey Office .15

Shows the lake front from Winnetka to Hyde Park. The Lake Survey charts the Great Lakes, the St. Lawrence River, Lake Champlain and Lake George. The charts are in color, the cities are shown in insets.

Cincinnati, Ohio, and vicinity, 20x33 in...U. S. Geol. Survey .20

Maps of many of the larger cities are available. They are made from topographic sheets, printed as a single map.

Springfield, Ill. Topographic sheet, 17x20..U. S. Geol. Survey .10

Shows the relief features, the water courses, railroads, highways, the plotting of cities, towns, and villages, the farm residences, and often the city and town residences. The section charted covers about 225 sq. miles. This work is not yet completed for all sections of the country. The U. S. Geological Survey publishes index maps which show what sheets are available for each state, also a list of the sheets which illustrate physiographic types, and a list of those which illustrate types important in engineering.

Paoli, Indiana. Post route map.....U. S. Post Office Dept. .05

Shows the routes starting from a single postoffice, the schools, churches, and farm residences. If the county rural delivery service has not been completed, such a map may be obtained for every postoffice which is a distributing center.

Geologic folio

No. 67, Danville, Ill. folio, 18x22 in.....U. S. Geol. Survey .05

Historical and economic geology sheets.

Includes maps and descriptive text of the topography, geology, underground structure, and mineral deposits. The folios which are sold for $.05 were slightly damaged by fire; the other folios sell for $.25-.75. The U. S. Geological Survey publishes index maps which show what folios are available.

Panama Canal Zone

Panama Canal, No. 954, 18x31 in..U. S. Coast and Geol. Sur. .30

A good map in color. The U. S. Coast and Geodetic Survey charts the Atlantic, the Gulf, and the Pacific Coasts; the West Indies; Alaska; Hawaii and the Philippines. The charts are

usually in black and white. The Survey publishes a catalog containing index maps of the coasts.

Panama Canal, northern half, No. 5000, 30x44 in.....
.....U. S. Hydrographic Off. $0.30

Panama Canal, southern half, No. 5001, 31x40 in.....
.....U. S. Hydrographic Off. .30

Map in color, in two sections. The charts of the U. S. Hydrographic Office relate mostly to the coasts and harbors of foreign countries, and to ocean routes. The Office publishes a list of charts which illustrate physiographic types. The complete catalog of charts sells for $.50.

Orders should be sent to the following addresses.

Personal checks and postage stamps are not accepted.
Send money order, or cash at owner's risk.

U. S. Superintendent of Documents, Washington, D. C.
Maps issued by U. S. Land Office.
Maps issued by U. S. Reclamation Service.
Maps issued by Engineer Dept. of U. S. War Dept.
Publishes price list of maps.

Director, U. S. Geological Survey, Washington, D. C.
Maps of North America, U. S., the States, smaller areas.
Topographic sheets
Geologic folios
Publishes—
Index maps of each state, showing topographic sheets and geologic folios issued.
List of topographic sheets illustrating physiographic types.
List of topographic sheets illustrating forms important in engineering.

Third Assistant Postmaster General, Washington, D. C.
State post route maps.
County post route maps
Local center post route maps
Publishes—
List of rural delivery county maps.

Chief Clerk, U. S. Reclamation Service, Washington, D. C.
Maps showing reclamation projects.
Publishes price list.

Lake Survey Office, Old Custom House, Detroit, Michigan.
Charts of Great Lakes, St. Lawrence River, Lake Champlain, Lake George.
Publishes index map and price list.

Superintendent, Coast and Geodetic Survey, Washington, D. C.
Charts of coast of U. S.
Publishes catalogue of charts.

U. S. Hydrographic Office, Washington, D. C.
Charts of coasts and harbors of foreign countries.
Publishes—
Charts illustrating physiographic types.
Catalogue of charts and books, $.50.

Illinois Geological Survey, Urbana, Ill.
Maps of Illinois.
County maps of Illinois (one county map issued).

Illinois Public Utilities Commission, Springfield, Ill.
Railroad map of Illinois.

LIST OF RECENT PUBLICATIONS OF VALUE TO LIBRARIANS

Furnished by Miss Hall

Cleveland Education Survey, The public library and the public school. (See chapters on the high school libraries.)

Davis, Esther, Library aids for teachers and school librarians. The H. W. Wilson Co., White Plains, N. Y., 10 cents.
Contains lists of available printed helps in high school library work.

Nunn, Janet, Planning and equipping a high school library. Public Libraries, November, 1915, 20:406-9.

Wilson, Martha, The school library room and its equipment. School Education, January, 1916, 35:29-30, Minneapolis, Minn.

Fay, L. E., and Eaton, Annie, Selection of books and magazines for a high school library, 1916, —, pp. 149-182.

Horton, Marion, Periodicals in the high school library. Library Journal, July, 1916, pp. 522-524.

ILLUSTRATIVE MATERIAL FOR HIGH SCHOOL LIBRARIES

Dana, J. C., and Gardner, Blanche, High school library aids: Pictures and objects. Free Public Library, Newark, N. J., $1.

Ward, C. C., Manual for the use of pictures in the teaching of English, Latin and Greek. 25 cents, University Prints Co., Newton, Mass.

AIDS IN LIBRARY INSTRUCTION

Hopkins, Florence, Reference guides and how to use them. The Willard Co., Detroit, Mich., $1.50.

Madison, Elizabeth, A high school course in library use. English Journal, March, 1916, 5:196-201.

WISCONSIN STATE EDUCATION DEPARTMENT, Lessons on the use of the school library, by O. S. Rice. Madison, Wis., 1915.

ARTICLES ON THE IMPORTANCE OF THE HIGH SCHOOL LIBRARY

BRECK, EMMA J., The efficient high school library. English Journal, January, 1916, 5:10-19.

One of the best articles yet written on the importance of the high school library.

PROFESSIONAL READING FOR HIGH SCHOOL PRINCIPALS AND TEACHERS

The following lists were obtained by sending out 99 letters, in about equal numbers, to Professors of Education in Universities with the omission of three of the larger institutions which have been most productive of books in this field; to High School Inspectors; to Illinois High School Principals, and to High School Principals outside of Illinois. These were asked to name not to exceed five books each, and also the most desirable educational periodicals and educational reports. A total of 63 replies were received and the following lists represent books, periodicals and reports named by three or more, and arranged in alphabetical order:

I. BOOKS FOR PRINCIPALS

Brown, E. E., Making of the Middle Schools. Longmans, 1903, $3.00.

Brown, J. F., The American High School. Macmillan. 1909. $1.40.

Butler, N. W., The Meaning of Education. Scribners, 1915, $1.50.

Cubberley, E. P., Public School Administration. Houghton, Mifflin & Co., 1916, $1.75.

Davis, C. O., High School Courses of Study. World Book Co., 1914, $1.50.

*Davis, J. B., Vocational and Moral Guidance. Ginn & Co. 1914, $1.25.

Dewey, John, Democracy and Education. Macmillan, 1908, $1.40.

Dewey, John, The Schools of Tomorrow. Dutton, 1915, $1.50.

*Dewey, John, How We Think. D. C. Heath & Co., 1910, $1.00.

*Hall, G. Stanley, Adolescence. (Out of print.)

*Hall-Quest, A. L., Supervised Study. Macmillan, 1916, $1.25.

*Hollister, H. A., High School and Class Management. D. C. Heath & Co., 1915, $1.25.

Hollister, H. A., High School Administration. D. C. Heath & Co., 1909, $1.50.

Hollister, H. A., Administration of Education in a Democracy. Scribners, 1914, $1.25.

*Johnston, C. H., and Others, The Modern High School, Scribners, 1916, $1.75.

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*Named also for High School Teachers.

*Johnston, C. H., and Others, High School Education. Scribners, 1912, $1.50.

*Judd, C. H., The Psychology of High School Subjects. Ginn & Co., 1915, $1.50.

*King, Irving, The High School Age. Bobbs, Merrill & Co., 1914, $1.00.

King, Irving, Social Aspects of Education. Macmillan, 1912, $1.60.

*Lewis, W. D., Democracy's High School. Houghton, Mifflin & Co., 1914, $0.60.

Monroe, Paul (editor), Principles of Secondary Education. Macmillan, 1914, $1.90.

*Parker, S. C., Methods of Teaching in High School. Ginn & Co., 1915, $1.50.

Stout, J. E., The High School. D. C. Heath & Co., 1914, $1.50.

II. THE FOLLOWING ADDITIONAL BOOKS WERE NAMED FOR HIGH SCHOOL TEACHERS

Bagley, W. C., Classroom Management. Macmillan, 1907, $1.25.

Bagley, W. C., Educational Values. Macmillan, 1911, $1.10.
Book on the Teacher's Special Subject.

Colvin, S. S., The Learning Process. Macmillan, 1911, $1.25.

Henderson, C. H., Education and the Larger Life. Houghton, Mifflin & Co., 1902, $1.30.

McMurry, Frank, How to Study and Teaching How to Study. Houghton, Mifflin & Co., 1909, $1.25.

Sandwick, R. L., How to Study. D. C. Heath & Co., 1915, $0.60.

Strayer, G. D., A Brief Course in the Teaching Process. Macmillan, 1911, $1.25.

PERIODICALS

The following were mentioned from four to thirty-eight times. The School Review was highest, receiving more than double the number of mentions of any other Journal.

American Journal of Education, Boston.

American School Board Journal, Detroit.

Education, Boston.

Educational Administration and Supervision, Lancaster, Pa., and Baltimore, Md.

Educational Review, New York.
School and Home Education, Bloomington, Ill.
School Review, Chicago.
School and Society, New York.
Special Department Magazine.

REPORTS

Illinois High School Conference.
North Central Association Proceedings.
National Education Association Reports.
Surveys.
United States Bureau of Education Bulletins.
Year Book of the National Society for the Study of Education.

AGRICULTURE

A GOOD MINIMUM LIST FOR AGRICULTURAL LIBRARY

Reported by T. R. Isaacs, Decatur

BOWMAN, M. L., Corn Growing, Judging, Breeding, Feeding and Marketing. Waterloo, Iowa, Pub. Co., 1915, $2.00.

MONTGOMERY, Productive Farm Crops. Lippincott, 1916, $1.75.

HOPKINS, C. G., Soil Fertility and Permanent Agriculture. Ginn & Co., 1916, $2.25.

LYON, T. L., FIPPIN, E. O., and BUCKMAN, H. O., Soils. Macmillan, 1915, $1.90.

PLUMB, C. S., Types and Breeds of Farm Animals. Ginn & Co., 1914, $2.00.

CURTIS, Live Stock Judging. Lea and Febiger, $2.00.

HENRY, W. A., AND MORRISON, F. B., Feeds and Feeding. Authors. Madison, Wis., 1915, $2.25.

DAY, G. E., Productive Swine Husbandry, 2nd ed. rev. Lippincott, 1915, $1.50.

ECKLES, C. H., Dairy Cattle and Milk Production. Macmillan, 1911, $1.60.

BAILEY, L. H., Principles of Fruit Growing, 20th ed. Macmillan, 1915, $1.75.

LLOYD, J. W., Productive Vegetable Gardening. Lippincott, 1915, $1.50.

WARREN, G. F., Farm Management. Macmillan, 1913, $1.75.

BULL, SLEETER, Principles of Feeding Farm Animals. Macmillan, 1916, $1.75.

A GENERAL LIST FOR AGRICULTURE

Soils:

WHITSON, A. R., and WALSTER, H. L., Soils and Soil Fertility. St. Paul, Webb Pub. Co., 1912, $1.25.

Animal Husbandry:

HARPER, M. W., Animal Husbandry for Schools. New York, Macmillans, 1913, $1.40.

PLUMB, C. S., Beginnings in Animal Husbandry. St. Paul, Webb Pub. Co., 1912, $1.25.

Dairy Husbandry:

MICHELS, JOHN, Dairy Farming, 7th ed. Published by Author. Wauwatosa, Wis., 1915, $1.00.

Farm Mechanics and Agricutural Engineering:

DAVIDSON, J. B., Agricultural Engineering. St. Paul, Webb. Pub. Co., 1913, $1.50.

Farm Management:

WARREN, G. F., Farm Management. New York, Macmillan, 1913, $1.75.

BOSS, A., Farm Management. Lyons & Carnahan, 1914, $0.90.

Horticulture:

(No general text.)

GREEN, S. B., Popular Fruit Growing. St. Paul, Webb Pub. Co., 1912, $1.00.

Plant and Animal Improvement:

DAVENPORT, EUGENE, Domesticated Animals and Plants. Chicago, Ginn & Co., 1912, $1.25.

Farm Crops:

BOWMAN, M. L., and CROSSLEY, B. W., Corn, 2nd ed. Ames, Ia., Bowman & Crossley, 1911, $2.00.

BURKETT, C. W., Farm Crops. New York, Orange Judd Co., 1910, $1.50.

GRUBB, EUGENE, and GUILFORD, W. D., The Potato. Garden City, N. Y., Doubleday Page Co., 1912, $2.00.

HUNT, T. F., The Cereals in America. New York, Orange Judd Co., 1904, $1.75.

HUNT, T. F., Forage and Fibre Crops in America. New York, Orange Judd Co., 1907, $1.75.

LIVINGSTON, GEORGE, Field Crop Production, New York, Macmillan, 1914, $1.40.

MONTGOMERY, E. G., The Corn Crops. New York, Macmillan, 1913, $1.60.

SHAW, THOMAS, Clovers and How to Grow Them. New York, Orange Judd Co., 1906, $1.00.

SHAW, THOMAS, Grasses and How to Grow Them. St. Paul, Minn., Webb Pub. Co., 1910, $1.50.

WEED, C. M., and RILEY, W. E., Crop Production. Boston, D. C. Heath & Co., 1914, $0.75.

WING, J. E., Alfalfa Farming in America, 2nd ed. Chicago, Breeders' Gazette, 1916, $2.00.

WING, J. E., Meadows and Pastures. Chicago, Sanders Pub. Co , 1911, $1.50.

WILSON, A. D., and WARBURTON, C. W., Field Crops. St. Paul, Webb Pub. Co., 1912, $1.50.

PIPER, C. V., Search for New Leguminous Forage Crops. In Agriculture Department. Yearbook, 1908, pp. 245-260. Same separate, 1909. Superintendent of Documents, Washington, D. C., $0.05.

Soils and Fertilizers:

HALL, A. D., The Soil. New York, E. P. Dutton Co., 1909, $1.50.

HALL, A. D., Fertilizers and Manures. New York, E. P. Dutton & Co., 1909, $1.50.

HOPKINS, C. G., Soil Fertility and Permanent Agriculture. Boston, Ginn & Co., 1910, $2.25.

THORNE, C. E., Farm Manures. New York, Orange Judd Co., 1913, $1.50.

VOORHEES, E. B., Fertilizers, rev. ed. New York, Macmillans, 1916, $1.50.

Irrigation and Drainage:

ELLIOTT, C. G. Practical Farm Drainage, 2d Ed. New York, Wiley, 1908, $1.50.

ELLIOTT, C. G., Engineering for Land Drainage. New York, Wiley, 1912, $1.50.

FORTIER, SAMUEL, Use of Water in Irrigation. New York, McGraw-Hill Book Co., 1915, $2.00.

KING, F. H., Irrigation and Drainage, 5th ed. New York, Macmillan, 1908, $1.50.

OLIN, W. H., American Irrigation Farming. Chicago, A. C. McClurg, 1914, $1.50.

WIDTSOE, J. A., Principles of Irrigation Practice. New York, Macmillan, 1914, $1.75.

Weeds:

GEORGIA, A. E., Manual of Weeds. New York, Macmillan, 1914, $2.00.

PAMMEL, L. H., Weeds of the Farm and Garden. New York, Orange Judd Co., 1911, $1.50.

PAMMEL, L. H., A Talk on Weeds. Ames, Iowa, Author, 1910, $0.50.

SHAW, THOMAS, Weeds and How to Eradicate Them, 3rd ed. St. Paul, Webb Pub. Co., 1911, $0.50.

Animal Husbandry—General:

HARPER, M. W., Animal Husbandry for Schools. New York, Macmillan, 1913, $1.40.

HARPER, M. W., Manual of Farm Animals. New York, Macmillan, 1913, $2.00.

HUNT, T. F., and BURKETT, C. W., Farm Animals. New York, Orange Judd Co., 1914, $1.50.

SMITH, H. R., Profitable Stock Feeding, 7th ed. St. Paul, 1912, $1.50.

WOLL, F. W., Farm Animals. Philadelphia, Lippincott.

Types, Breeds and Judging Live Stock:

CRAIG, J. A., Judging Live Stock, rev. ed. Des Moines, Iowa, Kenyon Printing and Mfg. Co., 1914.

GAY, C. W., The Principles and Practices of Judging Live Stock. New York, Macmillan, 1914, $1.50.

PLUMB, C. S., Types and Breeds of Farm Animals. Boston, Ginn & Co., 1914, $2.40.

CURTIS, ROBT. S., Fundamentals of Live Stock Judging and Selection. Philadelphia and New York, Lea & Febiger, 1915, $2.00.

Breeding Farm Animals:

DAVENPORT, EUGENE, Principles of Breeding. Boston, Ginn & Co. 1913, $2.50.

DAVENPORT, EUGENE, Domesticated Animals and Plants. Boston, Ginn & Co., 1912, $1.50.

HARPER, M. W., Breeding Farm Animals. New York, Orange Judd Co., 1914, $1.50.

MARSHALL, F. R., Breeding Farm Animals. Chicago, Sanders Pub. Co., 1911, $1.50.

WILSON, JAMES, Principles of Stock Breeding. Vinton & Co., 1912, $1.25.

Feeding Farm Animals:

BURKETT, C. W., First Principles of Feeding Farm Animals. New York, Orange Judd Co., 1912, $1.50.

HENRY, W. A., Feeds and Feeding, 13th ed. Madison, Wis., Author, 1913, $2.25.

HENRY and MORRISON, Feeds and Feedings, 16th ed. Madison, Wis., Author, 1916, $2.25.

KELLNER, O. J., The Scientific Feeding of Animals. New York, Macmillan, 1913, $1.75.

SMITH, H. R., Profitable Stock Feeding, 7th ed. St. Paul, Webb Pub. Co., 1912, $1.50.

BULL, SLEETER, Principles of Feeding Farm Animals. Macmillan, 1916, $1.75.

WOLL, F. W., Productive Feeding of Farm Animals, 2nd ed. Philadelphia. Lippincott, 1916, $1.75.

Horses:

BARTON, F. T., Horses and Practical Horse Keeping. New York, Macmillan, 1912, $3.50.

GAY, C. W., Productive Horse Husbandry, 2nd ed., Philadelphia, Lippincott, 1916, $1.50.

HARPER, M. W., The Training and Breaking of Horses. New York, Macmillan, 1912, $1.75.

HARPER, M. W., Management and Breeding of Horses. New York, Orange Judd Co., 1913, $2.00.

ROBERTS, I. P., The Horse, 3rd ed. New York, Macmillan, 1910, $1.25.

Sheep:

CLARKE, W. J., Modern Sheep, Breeds and Management, Chicago, American Sheep Breeder Co., 1907, $1.50.

CRAIG, J. A., Sheep Farming in North America. New York, Macmillan, 1913, $1.50.

SHAW, THOMAS, Management and Feeding of Sheep. New York, Orange Judd Co., 1915, $2.00.

STEWART, HENRY, The Shepherd's Manual. New York, Orange Judd Co., 1884, $1.00.

RUSHWORTH, W. A., Sheep and Their Diseases. Chicago, Alexander Eger Co., $1.50.

WING, J. E., Sheep Farming in America. Chicago, Sanders Pub. Co., 1912, $1.00.

YOUATT, WM., Sheep, Their Breeds, Management and Diseases. London, Simpkin, Marshall, Kent & Co., 1837, Historical.

COFFEY, W. C., Productive Sheep Husbandry. Philadelphia, Lippincott, 1914, $1.50.

Swine:

Day, G. E., Productive Swine Husbandry, 2nd ed. rev. Philadelphia, Lippincott, 1915, $1.50.

Dawson, H. C., The Hog Book. Chicago, Sanders Pub. Co., 1911 (purely practical).

Craig, R. A., Diseases of Swine. New York, Orange Judd Co., 1906, $0.75.

Kingsley, A. T., Diseases. Evanston, Ill., American Journal of Veterinary Medicine, 1914.

Gregory, C. V., The Prairie Farmer Hog Book. Chicago, 1914.

Dairying:

Woll, F. W., Handbook for Farmer and Dairyman, 6th ed. New York, Wiley, 1914, $1.50.

Michels, John, Dairy Farming, 7th ed., 1915, $1.00.

Michels, John, Market Dairying and Milk Products, 3rd ed., 1915, $1.50.

Michels, John, Creamery Butter Making, 8th ed. Wauwatosa, Wis., Author, 1915, $1.50.

Poultry:

Robinson, John H., Principles and Practice of Poultry Culture. Chicago, Ginn & Co., 1912, $2.50.

Lippincott, W. A., Poultry Production. New York, Lea & Febiger, 1914, $2.00.

Fruit Growing:

Green, S. B., Popular Fruit Growing. Webb Co., 1909, $1.00.

Bailey, L. H., Principles of Fruit Growing, 20th rev. ed. Macmillan, 1915, $1.75.

Bailey, L. H., The Pruning Book, 8th ed. Macmillan, 1907. $1.50.

Vegetable Gardening:

Corbett, L. C., Garden Farming. Boston, Ginn & Co., 1914. (Very good in material, etc., but not logically arranged for teaching purposes), $2.40.

Lloyd, J. W., Productive Vegetable Gardening. Philadelphia, Lippincott, 1914. (Very good for high schools) $1.50.

Tracy, W. W. Tomato Culture. New York, Orange Judd Co., 1907, $0.50.

WATTS, R. L. Vegetable Gardening. New York, Outing Pub Co. 1915, $0.70.

Floriculture and Amateur Gardening:

ELY, HELEN R. The Practical Flower Garden. New York, Macmillan. 1911. $2.00.

Forestry:

CHEYNEY, E. G. The Farm Woodlot. New York, Macmillan. 1914. $1.50.

LEVISON, J. J. Studies of Trees. New York, Wiley. 1915. $1.60.

PINCHOT, GIFFORD. The Training of a Forester. Philadelphia, Lippincott's. 1914. $1.00.

Plant Breeding:

BAILEY, L. H. Plant Breeding, new ed. rev. New York, Macmillan's. 1915. $2.00.

Economic Entomology:

FOLSOM, J. W. Entomology, 2nd ed. Philadelphia, Blakiston. 1913. $2.25.

HERRICK, G. W. Insects Injurious to the Household and Annoying to Man. New York, Macmillan. 1914. $1.75.

SHARP, D. Insects. New York, Macmillan. 1901. (In Cambridge Natural History, v. 5 and 6), v. 5, $4.00; v. 6, $3.60.

Farm Management:

BOSS, ANDREW. Farm Management. Chicago, Lyons and Carnahan. 1914. (Especially well adapted to high school work.) $0.90.

BOSS, ANDREW AND PECK, F. W. Farm Records and Accounts. St. Paul, Webb Pub. Co. 1914. $2.00.

WARREN, G. F. Farm Management. New York, Macmillan. 1913. $1.75.

WARREN, G. F., and LIVERMOORE, K. C. Laboratory Exercises in Farm Management. New York, Macmillan. 1913. $0.75.

Agricultural Engineering and Farm Mechanics:

FRENCH, T. E., and IVES, F. W. Agricultural Drawing and The Design of Farm Structures. New York, McGraw-Hill Book Co. 1915. $1.25.

FULLER, MYRON L. Domestic Water Supply for the Farm. New York, Wiley. 1912. $1.50.

Hopkins, Alfred. Modern Farm Buildings, new ed. New York, McBride, Nast & Co. 1916. $2.50.

King, Alfred G. Practical Steam and Hot Water Heating and Ventilation, 2nd ed. New York, Henley. 1912. $3.00.

Koester, Frank. Electricity for the Farm and Home. New York, Sturgis & Walton Co. 1913. $1.00.

Ogden, H. N., and Cleveland, H. N. Practical Methods of Sewage Disposal. New York, Wiley. 1913. $1.00.

Ekblaw, K. J. T. Farm Structures. New York, Macmillan. 1914. $1.75.

Teaching Agriculture in the High Schools:

Bricker, G. A. The Teaching of Agriculture in the High School. New York, Macmillan. 1913. $1.00.

Davenport, Eugene. Education for Efficiency, rev. Boston, Heath. 1915. $1.00.

Hummel, W. G., and Hummel, B. R. Materials and Methods in High School Agriculture. New York, Macmillan. 1914. $1.25.

BIOLOGY

I. BOTANY—MINIMUM LIST

Text Book of Botany (2 vol.), Coulter, Barnes & Cowles. Am. Bk. Co., 1910-11, $4.75.

Living Plant, Ganong, W. F. Holt, 1913, $3.50.

New Manual of Botany, 7th ed., Gray, Asa. Am. Bk. Co., 1908, $2.50.

Bacteria Yeasts and Molds in the Home, Conn, H. W. Ginn, 1912, $1.00.

Bacteria in Relation to Country Life, Lipman, J. G. Macmillan, 1908, $1.50.

The Indiana Weed Book, Blatchley, W. S. Nature Pub. Co., 1912, $1.00.

Weeds of Farm and Garden, Pammel, L. H. Judd, 1911, $1.50.

Plant Physiology, Duggar, B. M. (Rural Text Book Series.) Macmillan, 1911, $1.60.

Our Native Trees, Keeler, H. L. Scribner, 1900, $2.00.

First Book of Forestry, Roth, Filibert. Ginn, 1902, $0.90.

Seed Dispersal, Beall, W. J. Ginn, $0.42.

Fundamentals of Plant Breeding, Coulter, J. M. Appleton, 1914, $1.50.

Field, Forest and Wayside Flowers, Going, E. M. Doubleday, $1.35.

II. PHYSIOLOGY—MINIMUM LIST

Human Body (adv. revised), Martin, H. N. Holt, $2.50.

Principles of Sanitary Science and the Public Health, Sedgwick, W. T. Macmillan, 1902, $3.00.

Nutritional Physiology, 2d ed., Stiles, P. G. Saunders, 1915, $1.25.

Health Work in the Schools (Riverside Textbooks in Education), Hoag and Terman. Houghton, 1914, $1.60.

Prevention and Treatment of Diseases of the Domestic Animals, Winslow, Kenelm. Jenkins, 1912, $3.50.

Sanitation and Physiology, Ritchie, J. W. World Book Co., 1910, $1.20.

The Immediate Care of the Injured, 2d ed., Morrow, A. S. Saunders, 1912, $2.50.

From Youth Into Manhood, Hall, W. S. Y. M. C. A., 1909, $0.50.

Biology, Physiology and Sociology of Reproduction, 15th ed., Hall, W. S., Wynnewood Pub. Co., 1914, $1.00.

Sources and Modes of Infection, 2d ed., Chapin, C. V. Wiley, 1912, $3.00.

The Next Generation, Jewett, F. G. Ginn, 1914, $0.75.

Manual of Personal Hygiene, Pyle, W. L. Saunders, 1915, $1.50.

III. ZOOLOGY—MINIMUM LIST

Handbook of Birds of Eastern North America, 8th ed., Chapman, F. M. Appleton, 1912, $3.50.

Useful Birds and Their Protection, Forbush, E. H. Mass. State Board of Agr., 1907, $1.36 net.

The Reptile Book, Ditmars, R. L. Doubleday, 1907, $4.00.

The Biology of the Frog, Holmes, S. J. Macmillan, 1906, $1.60.

American Insects, 2d ed., Kellogg, V. L. Holt, 1908, $5.00; Student's ed., $4.00.

Manual for Study of Insects, 8th ed., Comstock & Comstock, 1909. Comstock Pub. Co., $3.75.

Reports on Noxious and Beneficial Insects of Illinois, Forbes, S. A.

Fishes of Illinois, Forbes & Richardson. Pub. by authority of state legislature, Danville, Ill., 1909; if not possible to obtain, get

American Food and Game Fishes, Jordan & Evermann. Doubleday, 1902, $4.00.

Protozoa, Coelenterates and Echinoderms, Cambridge Natural Hist. Vol. 1. Macmillan, $4.50.

American Animals (Mammals), Stone and Cram. Doubleday, 1905, $3.00 net.

The Crayfish, Huxley, T. H. Appleton, $1.75.
A. B. C. and X. Y. Z. of Bee Culture, Root & Root. A. I. Root Co., 1913, $2.00.
Introduction to Zoology, Hegner, R. W. Macmillan, 1910, $1.90.
Origin of Species, Darwin,. Rand, $0.50, $0.60 or $1.00.
Evolution, Heredity and Eugenics (School Science Series), Coulter, J. M. J. G. Coulter, Bloomington, Ill., 1916, $0.50.
Mendelism, Punnett, R. C. Latest edition. Macmillan, $1.25.
Genetics, Walter, H. E. Macmillan, 1913, $1.50.
Guide to the Study of Animal Ecology, Adams, C. C. Macmillan, 1913, $1.25.

CLASSICAL

A list of books recommended for a high school classical library by the Classical Section of the University of Illinois Conference. Books marked thus (*) constitute a minimum list.

I. Language:

a. General.

*Bennett & Bristol. The Teaching of Greek and Latin in High Schools. Longmans. $1.50.

Kelsey, F. W. Latin and Greek in American Education. Macmillan. $1.50.

Tolman, H. C. The Art of Translating. Sanborn. $0.70.

Weil, H. The Order of Words in the Ancient Languages Compared with that of Modern Languages. Ginn. $1.25.

b. Latin.

*Bennett, C. E. The Latin Language. Allyn & Bacon. $1.00.

Bennett, C. E. Syntax of Early Latin: Vol. I, the Verb; Vol. II, The Case Constructions. Allyn & Bacon. $4.00 each.

*Byrne, L. The Syntax of High School Latin. University of Chicago Press. $0.75.

*Gildersleeve & Lodge. Gildersleeve's Latin Grammar. Heath. $1.25.

*Harper's Latin Dictionary, edited by E. A. Andrews. American Book Company. $6.50.

Jenks, P. R. Manual of Latin Word Formation. Heath. $0.50.

Lewis, C. T. Elementary Latin Dictionary. American Book Company. $2.00.

*Lewis, C. T. A Latin Dictionary for Schools. American Book Company. $4.50.

Lindsay, W. M. The Latin Language. Oxford. $5.25.

*Lindsay, W. M. A Short History of the Latin Language. Oxford. $1.40.

*Lodge, G. Vocabulary of High School Latin. Teachers' College, New York. $1.50.

Potts, A. W. Hints Toward Latin Prose Composition. Macmillan. $0.75.

*Shumway, E. S. A Handbook of Latin Synonyms. Ginn. $0.30.

White, J. T. English-Latin Dictionary. Ginn. $1.50.

c. Greek.

*Goodwin, W. W. Greek Grammar. Ginn. $1.50,

*or Hadley-Allen. Greek Grammar. American Book Company. $1.50.

Goodwin, W. W. Syntax of the Moods and Tenses of the Greek Verb. Ginn. $2.00.

*Liddell & Scott. Greek Lexicon. Intermediate $10.00. Oxford $3.50.

*Monro, D. B. A Grammar of the Homeric Dialect. Oxford. $3.50.

Yonge, C. D. English-Greek Lexicon. American Book Company. $4.50.

Seymour, T. D. Introduction to the Language and Verse of Homer. Ginn. $0.75.

II. *Mythology and Religion:*

*Bailey. The Religion of Ancient Rome. Open Court Pub. Co., Chicago. $0.40.

*Bulfinch, T. The Age of Fable. Everyman's Library. Dutton. $0.35.

*Fairbanks, A. The Mythology of Greece and Rome. Appleton. $1.50.

*Gayley, C. M. Classic Myths in English Literature. Ginn. $1.50.

*Guerber, H. A. Myths of Greece and Rome. American Book Company. $1.50.

*Smith & Marindin. A Classical Dictionary of Greek and Roman Biography, Mythology and Geography. Appleton. $6.00.

Smith, Wm. Dictionary of Greek and Roman Biography and Mythology, 3 vols. Little. $18.00.

FAIRBANKS, A. Greek Religion. American Book Company. $1.50.

*FOWLER, W. W. Roman Festivals. Macmillan. $1.20.

*FRAZER, T. G. The Golden Bough: A Study in Comparative Religion, 2 vols. Macmillan. $5.00.

*GARDINER, E. N. Greek Athletic Sports and Festivals. Macmillan. $2.50.

III. Antiquities:

a. General.

*GOW, JAMES. A Companion to School Classics. Macmillan. $1.75.

*GUHL, & KONER. The Life of the Greeks and Romans. Scribner. $2.50.

*Harper's Classical Dictionary, edited by H. T. PECK. American Book Company. $6.00.

HILL, G. F. Handbook of Greek and Roman Coins. Macmillan. $2.25.

*SCHREIBER, T. Atlas of Classical Antiquities. Macmillan. $6.50.

*SMITH, WM. Dictionary of Greek and Roman Antiquities. American Book Company. $4.25.

b. Roman.

ABBOTT, F. F. The Common People of Ancient Rome. Scribner. $1.50.

BECKER, W. A. Gallus: or Roman Scenes in the Time of Augustus. Longmans. $1.25.

*CHURCH, A. J. Roman Life in the Days of Cicero. Macmillan. $0.50.

DAVIS, W. S. The Influence of Wealth on Imperial Rome. Macmillan. $2.00.

DILL, SAMUEL. Roman Society from Nero to Marcus Aurelius. Macmillan. $2.50.

DILL, SAMUEL. Roman Society in the Last Century of Western Europe. Macmillan. $1.75.

D'OOGE, M. L. The Acropolis of Athens. Macmillan. $4.00.

DREVER, J. Greek Education. Cambridge. $0.60.

FOWLER, W. W. Social Life at Rome in the Age of Cicero. Macmillan. $2.25.

FRIEDLANDER, L. Roman Life and Manners Under the Early Empire, 2 vols. Dutton. $1.50 each.

FRIEDLANDER, L. Town Life in Ancient Italy. Translated by W. W. Waters. Sanborn. $0.75.

GUSMAN, P. Pompeii: The City, Its Life and Art, illustrated. Dodd. $12.50.

HARE, A. J. C. Walks in Rome. 2 vols. Macmillan. $2.50.

HERBERMANN, C. G. Business Life in Ancient Rome. American Book Co. $0.30.

*HUELSEN, C. The Roman Forum. Translated by J. B. Carter. Stechert. $1.75.

INGE, W. R. Society in Rome Under the Caesars. Scribner. $1.25.

JOHNSTON, H. W. The Private Life of the Romans. Scott. $1.50.

LANCIANI, R. Ancient Rome in the Light of Recent Discoveries. Houghton. $6.00.

LANCIANI, R. The Destruction of Ancient Rome. Macmillan. $1.50.

LANCIANI, R. Ruins and Excavations of Ancient Rome. Houghton. $4.00.

MAU and KELSEY. Pompeii: Its Life and Art. Macmillan. $6.00. Abridged, $2.50.

PELLISON, M. Roman Life in Pliny's Time. Jacobs. $1.00.

PLATNER, S. B. Topography and Monuments of Ancient Rome. American Book Co. $3.00.

*PRESTON and DODGE. The Private Life of the Romans. Sanborn. $1.05.

SANDYS, J. E. A Companion to Latin Studies. Putnam. $6.00.

THOMAS, E. Roman Life Under the Caesars. Putnam. $1.60.

WILKINS, A. S., Roman Education. Cambridge. $0.50.

c. Greek.

BAIKIE, J. The Sea Kings of Crete. Macmillan. $2.00.

BECKER, W. A. Charicles: Or Illustrations of the Private Life of the Ancient Greeks. Longmans. $1.25.

DAVIDSON, T. The Education of the Greek People and Its Influence. Appleton. $1.50.

*DAVIS, W. S. A Day in Old Athens. Allyn & Bacon. $1.25.

FOWLER and WHEELER. A Handbook of Greek Archaeology. American Book Co. $2.00.

GULICK, C. B. The Life of the Ancient Greeks. Singleton. $1.40.

MAHAFFY, J. P. Old Greek Education. Harper. $0.75.

*MAHAFFY, J. P. Old Greek Life. American Book Co. $0.35.

MAHAFFY, J. P. Rambles and Studies in Greece. Macmillan. $1.50.

*TUCKER, T. G. Life in Ancient Athens. Macmillan. $1.25.

WHIBLEY, L. A Companion to Greek Studies. Cambridge. $6.00.

d. Geographical.

*KIEPERT, H. Atlas Antiquus. Stechert. $1.75.

MURRAY. Small Classical Atlas. Oxford. $1.35.

SHEPHERD, W. R. Historical Atlas. Holt. $2.50.

SMITH, WM. Dictionary of Greek and Roman Geography. 2 vols. Little. $12.00.

*TOZER, H. F. Classical Geography. American Book Co. $0.35.

e. Political and Constitutional.

FOWLER, W. W. City State of the Greeks and Romans. Macmillan. $1.00.

*ABBOTT, F. F. History and Description of Roman Political Institutions. Ginn. $1.50.

GRANRUD, J. E. Roman Constitutional History. Allyn & Bacon. $1.25.

GREENIDGE, A. H. J. Roman Public Life. Macmillan. $2.50.

GREENIDGE, A. H. J. Legal Procedure in Cicero's Time. Oxford. $7.75.

GREENIDGE, A. H. J. A Handbook of Greek Constitutional History. Macmillan. $1.25.

*MOREY, W. C. Outlines of Roman Law. Putnam. $1.75.

TAYLOR, T. M. Constitutional and Political History of Rome. Methuen. $1.87.

TIGHE, A. The Development of the Roman Constitution. American Book Co., $0.35.

f. Military.

DODGE, T. A. Caesar: A History of the Art of War. 2 vols. Houghton. $5.00.

*HOLMES, T. R. E. Caesar's Conquest of Gaul. Oxford. $7.75.

*JUDSON, H. P. Caesar's Army. Ginn. $1.00.

OEHLER, R. Bilderatlas zu Casars Büchern de Bello Gallico. Stechert. $1.00.

TROLLOPE, ANTHONY. The Commentaries of Caesar. Blackwood & Sons. London.

g. Art.

GARDNER, E. A. A Handbook of Greek Sculpture. Macmillan. $2.50.

LUBKE, W. Outlines of the History of Art. 2 vols. Dodd. $14.00.

RICHARDSON, R. B. Greek Sculpture. American Book Company. $1.50.

*TARBELL, F. B. History of Greek Art. Macmillan. $1.00.

IV. Literature and Literary Biography:

a. General.

CHURCH, A. J. Stories from Homer, Vergil, the Greek Tragedians, Livy, Herodotus and Pliny. Dodd. $1.24 each.

COLLINS, W. L. Ancient Classics for English Readers. 28 vols. in 9. (The volumes may be obtained separately.) Lippincott. $6.75.

MOULTON, R. G. The Ancient Classical Drama. Oxford. $2.25.

MEYERS, F. W. H. Essays Classical (contains fine essay on Virgil). Macmillan. $1.25.

SANDYS, J. E. A Short History of Classical Scholarship. Cambridge. $9.00.

SEARS, L. A History of Oratory. Scott. $1.50.

b–1. Latin—Criticism.

DUFF, J. W. A Literary History of Rome. Scribner. $3.50.

COMPARETTI, D. Vergil in the Middle Ages. Macmillan. $1.75.

*GLOVER, T. R. Vergil (an excellent treatment of Vergil and the Aeneid). Longmans. $3.00.

*GREEN, J. R. Stray Studies from England and Italy (a fine chapter on Aeneas), Harper. $1.75.

HEINZE, R. Vergils Epische Technik (Teubner text). Stechert. (Very valuable for teachers of Vergil who read German.)

JOHNSTON, H. W. Latin Manuscripts. Scott. $2.25.

KELSEY, F. W. Topical Outline of Roman Literature. Allyn & Bacon. $0.40.

MACKAIL, J. W. Latin Literature. Scribner. $1.25.

NETTLESHIP, H. Vergil. Appleton. $0.60.

NETTLESHIP, H. Lectures and Essays (Essays on Vergil). Oxford. $1.90.

*SELLAR, W. Y. Roman Poets of the Augustan Age. Vergil. Macmillan. $2.25.

TYRRELL, R. Y. Latin Poetry. Houghton. $1.50.

WOODBERRY, G. E. Great Writers. (Contains an admirable essay on Vergil.) Doubleday. $1.20.

b–2. Latin—Texts and Translations.

MARCUS AURELIUS. Meditations, translated by G. Long. Burt. $0.75.

CICERO. Two Essays on Old Age and Friendship, translated by E. W. S. Shuckburgh. Macmillan. $1.00.

PAPILLON and HAIGH. Vergil. Annotated text. Oxford. $3.00.

SIDGWICH. A Vergil's Aeneid with Annotations. Cambridge. $2.25.

c–1. Greek—Criticism.

ALLINSON, F. G. and A. Greek Lands and Letters. Houghton. $2.50.

ARNOLD, M. On Translating Homer. Dutton. $0.50.

BARROWS, S. J. The Isle and Shrines of Greece. Little. $2.00.

FOWLER, H. N. A History of Ancient Greek Literature. Appleton. $1.40.

HAIGH, A. E. The Attic Theatre. Oxford. $3.40.

JEBB, R. C. Greek Literature. American Book Company. $0.35.

JEBB, R. C. Homer: An Introduction to the Iliad and the Odyssey. Ginn. $1.12.

JEVONS, F. B. A History of Greek Literature. Scribner. $2.50.

LANG, A. The World of Homer. Longmans. $2.25.

LANG, A. Tales of Troy and Greece. Longmans. $1.00.

MAHAFFY, J. P. Greek Classical Literature, 4 vols. Macmillan. $4.50.

MURRAY, GILBERT. History of Ancient Greek Literature. Appleton. $1.50.

RICHARDSON, R. B. Vacation Days in Greece. Scribner. $2.00.

SEYMOUR, T. D. Life in the Homeric Age. Macmillan. $4.00.

*WRIGHT, W. C. A Short History of Greek Literature. American Book Company. $1.50.

c–2. Greek—Translations.

BUTCHER and LANG. Homer's Odyssey (prose translation). Macmillan. $0.90.

LANG, LEAF and MYERS Homer's Iliad (prose translation). Macmillan. $0.80.

*MURRAY, GILBERT. Euripides' Media, Troades and Electra. Oxford. $1.75.

LANG, A. Theocritus, Bion and Moschus. Macmillan. $1.00.

PLUMPTREE, E. H. The Tragedies of Aeschylus. Appleton. $1.

PLUMPTREE, E. H. The Tragedies of Sophocles. Appleton. $1.

*WAY, A. S. Tragedies of Sophocles. Macmillan. $1.10.

V. History and Historical Biography:

*Botsford, C. W. A Source-book of Ancient History. Macmillan. $1.30.

Davis, W. S. Readings in Ancient History, 2 vols.; Vol. I, Greece; Vol. II, Rome. Allyn & Bacon. $1.00 each.

*Plutarch's Lives. Edited by A. H. Clough. 3 vols. Everyman's Library. Dutton. $0.35 each.

*Webster, H. Readings in Ancient History. Heath. $1.50.

*Beesly, H. H. The Gracchi, Marius and Sulla. Epochs Series. Scribner. $0.90.

*Boissier, G. Cicero and His Friends. Putnam. $1.75.

Botsford, G. W. The Story of Rome as the Greeks and Romans Tell It. Macmillan. $0.90.

Bury, J. B. The History of the Roman Empire. American Book Co. $1.50.

*Capes, W. W. Early Roman Empire. Epochs Series. Scribner. $0.90.

Church, A. J. Pictures of Roman Life and Story. Appleton. $1.50.

Church, A. J. The Story of Carthage. Story of Nations Series. Putnam. $1.50.

Ferrero, F. The Women of the Caesars. Century. $2.00.

*Forsyth, Wm. The Life of Cicero. Scribner. $2.50.

*Fowler, W. W. Julius Caesar. Putnam. $1.50.

Froude, J. H. Caesar: A Sketch. Scribner. $1.50.

Gibbon, E. The Decline and Fall of the Roman Empire. Everyman's Library, 6 vols. Dutton. $0.35 each..

*How, W. W. Hannibal and the War Between Rome and Carthage. Seeley. $0.50.

*Ihne, W. Early Rome. Epochs Series. Scribner. $0.90.

Merivale, C. General History of Rome. Longmans. $2.00.

*Merivale, C. Roman Triumvirates. Epochs Series. Scribner. $0.90.

Mommsen, T. A History of Rome. Everyman's Library. 4 vols. Dutton. $0.35 each.

*Mommsen, T. History of the Roman Republic (abridged). Scribner. $1.75.

Morris, W. Hannibal. Putnam. $1.50.

*Monro, D. C. A Source Book of Roman History. Heath. $1.00.

OMAN, C. W. C. Seven Roman Statesmen. Longmans. $1.60.

*PELHAM, H. F. Outlines of Roman History. Putnam. $1.75.

SHUCKBURGH, E. S. Augustus. Wessels. $1.50.

SHUCKBURGH, E. S. A History of Rome to Actium. Macmillan. $1.75.

*SMITH, R. B. Rome and Carthage. Epochs Series. Scribner. $0.90.

*STRACHAN-DAVIDSON. Cicero and the Fall of the Roman Republic. Putnam. $1.50.

BURY, J. B. History of Greece to the Death of Alexander. Macmillan. $1.90.

COX, G. W. The Greeks and the Persians. Epochs Series. Scribner. $0.90.

COX, G. W. The Athenian Empire. Epochs Series. Scribner. $0.90.

*FLING, J. M. A Source-book of Greek History. Heath. $1.00.

GROTE, G. History of Greece. 12 vols. Everyman's Library. Dutton. $0.35 each.

SANKEY, C. The Spartan and Theban Supremacies. Epochs Series. Scribner. $0.90.

WHEELER, B. I. Alexander the Great. Putnam. $1.50.

VI. English Fiction, Poetry, Etc., Relating to Classical Subjects:

ARNOLD, E. L. L. Phra, the Phoenician. Burt. $0.50.

BYRON, LORD. Childe Harold. Stokes. $1.50.

CHAUCER, G. The Legende of Goode Women, translated by Skeat. Luce. $0.75.

CHURCH, A. J. Two Thousand Years Ago. Dodd. $1.25.

CRAWFORD, F. M. Ave Roma Immortalis, new ed. Macmillan. $2.50.

DAVIS, W. S. A Friend of Caesar: A Tale of the Fall of the Roman Republic. Macmillan. $1.50.

DAVIS, W. S. A Victor of Salamis: A Tale of the Days of Xerxes, Leonidas and Themistocles. Macmillan. $1.50.

HENDERSON, H. A. M. Diomede the Centurion. Methodist Bk. Co. $0.50.

JONSON, BEN. Cataline.

KINGSLEY, C. Hypatia, 2 vols. Century. $1.25 each.

LANDOR, W. S. Pericles and Aspasia. Little. $1.50.

LYTTON, BULWER. The Last Days of Pompeii. Little. $1.00.

MACAULAY, T. B. The Lays of Ancient Rome, edited by W. J. Rolfe. American Book Co. $0.56.

MORRIS, LEWIS. An Epic of Hades. Crowell. $0.60.

MORRIS, WILLIAM. The Earthly Paradise. Longmans. $2.50.

MORRIS, WILLIAM. The Life and Death of Jason. Dutton. $0.20.

PATER, W. Marius, the Epicurean. Macmillan. $2.25.

SIENKIEWICZ, HENRYK. Quo Vadis, translated by Binion & Malevsky. Donohue. $1.00.

SHAKESPEARE, W. Julius Caesar, Coriolanus, Trolius and Cressida, edited by W. J. Rolfe. American Book Co. $0.56 each.

WALLACE, LEW. Ben Hur: A Tale of the Christ. Harper. $1.50.

VII. Plays:

CODE, GRANT H. When the Fates Decree. Published by the Author, Pittsburgh, Pa. $0.50.

*JONES & APPLETON. Pearse Latin Plays. Stechert. $0.40.

*MILLER, F. J. Two Dramatizations from Vergil. Univ. of Chicago Press. $1.00.

*PAINE, MAINWARING & RYLE. Decem Fabulae. Oxford. $0.40.

*PAXSON, SUSAN. Two Roman Plays. Ginn. $0.45.

SCHLICHTER, J. J. Latin Plays. Ginn. $0.75.

VIII. Miscellaneous:

Art and Archaeology. Washington, D. C. Published monthly.

BAEDEKER, K. Central Italy and Rome. Scribner. $2.25.

DICKINSON, G. L. The Greek View of Life. Doubleday. $1.00.

MEADER, C. L. List of Books Recommended for a High School Classical Library. Macmillan. $0.10.

PAXSON, SUSAN. Handbook for Latin Clubs. Heath. $0.60.

SABIN, F. E. The Relation of Latin to Practical Life. Published by the Author, Madison, Wis. $1.55.

STORY, W. W. Roba Di Roma. Houghton. $2.50.

The Classical Journal. University of Chicago Press. $2.50 per year.

The Classical Weekly. Barnard College. New York City. $1.00 per year.

ZIELINSKI, F. F. Our Debt to Antiquity. Dutton. $0.75.

The committee appointed by the classical section of the University

of Illinois Conference to prepare a list of books or a high school classical library submits the above minimum and maximum lists.

Ada Stewart, Peoria High School
Helen Corley, Pana High School
Florence F. B. Manley, Englewood High School
Committee

The full names and addresses of publishers referred to in the above list are as follows:

Allyn & Bacon, 1006 S. Michigan Ave., Chicago.
American Book Co., Chicago.
D. Appleton & Co., Chicago.
Cambridge University Press, 2 W. 45th St., New York.
Dodd, Mead & Co., Fourth Ave. and 30th St., New York.
Doubleday, Page & Co., Garden City, New York.
E. P. Dutton & Co., 681 Fifth Ave., New York.
Ginn & Co., Chicago.
Harper & Brothers, Franklin Square, New York.
D. C. Heath & Co., 623 S. Wabash Ave., Chicago.
Houghton, Mifflin & Co., 4 Park St., Boston.
Little, Brown & Co., 34 Beacon St., Boston.
J. B. Lippincott Co., Philadelphia, Pa.
Longmans, Green & Co., Prairie Ave. and 25th St., Chicago.
The Macmillan Co., Prairie Ave. and 25th St., Chicago.
The Oxford Press, 29 W. 32d St., New York.
G. P. Putnam's Sons, 2 W. 45th St., New York.
B. H. Sanborn & Co., Chicago.
Charles Scribner's Sons, 608 S. Dearborn St., Chicago.
Scott, Foresman & Co., 623 S. Wabash Ave., Chicago.
G. E. Stechert & Co., 151 W. 25th St., New York.

Any of the above books may be obtained through A. C. McClurg & Co., Wabash Ave., Chicago, Ill.

COMMERCIAL

List Submitted by Guy M. Pelton, Evanston

The lists of books given in the following subjects are suggested for such work. "*" indicates books that may be used in smaller high schools. The number of books in either case, and the number of copies of each book that should be obtained, depends upon the local requirements.

BOOKKEEPING AND ACCOUNTING

BENTLEY, H. C. Corporate Finance & Accounting. 1908. Ronold. $4.00.

*BENTLEY, H. C. Science of Accounts. 1911. Ronold. $3.00.

BROWN, RICHARD. History of Accounting & Accounts. 1905. T. C. & E. C. Jack. $2.75.

*COLE, W. M. Accounts, Their Construction and Interpretation, rev. and enl. ed. 1915. Houghton, Mifflin. $2.25.

HASKINS, C. W. Business Education and Accounting. 1904. Harper. $2.00.

*HATFIELD, H. R. Modern Accounting. 1909. Appleton. $1.75.

*KLEIN, J. J. Elements of Accounting, rev. ed. 1915. Appleton. $1.50.

*MONTGOMERY, R. H. Auditing, Theory and Practice. 2d. ed. 1916. Ronold. $5.00.

STOCKWELL, H. G. Net Worth and the Balance Sheet. 1912. Ronold. $1.00.

COMMERCIAL LAW

*BAYS, A. W. Cases on Commercial Law. 1914. Callahan & Co. $4.00.

*WILLISTON, SAMUEL. Commercial Law. 1915. American Inst. of Banking. $1.00.

*WILLISTON, SAMUEL. Negotiable Instruments. 1915. American Inst. of Banking. $2.00.

*SPENCER, E. W. Manual of Commercial Law, 2d ed. 1914. Bobbs, Merrill & Co. $2.00.

SPENCER, E. W. Shorthand and Typewriting. Bobbs, Merrill & Co.

*ANDERSON, THOMAS. History of Shorthand. 1882. Allen & Co. $3.00.

*MARES, G. C. History of the Typewriter. 1909. G. Pitman. $1.25.

COMMERCIAL GEOGRAPHY

*Allen, N. B. Industrial Studies of Europe. 1913. Ginn. $0.80.

*Allen, N. B. Industrial Studies of U. S. 1910. Ginn. $0.65.

Burkett, C. W., & Poe, C. W. Cotton. 1906. Doubleday. $2.00.

Butler, F. O. Story of Paper Making. 1901. J. W. Butler Paper Co. $0.75.

Carpenter, F. G. Foods, or How the World Is Fed. 1907. American Book Co. $0.60.

*Channing, Edward, & Lansing, M. L. Story of the Great Lakes. 1909. Macmillan. $1.50.

*Chisholm, G. G. Handbook of Commercial Geography, 8th ed. 1911. Longmans. $4.80.

*Bengston, N. A., & Griffith, Donee. The Wheat Industry. 1915. Macmillan. $0.65.

Edgar, W. C. Story of a Grain of Wheat. 1903. Appleton. $1.00.

Forman, S. C. Stories of Useful Inventions. 1914. Century. $1.00.

*Forbes-Lindsay, C. H. Panama and the Canal Today. 1910. Page. $3.00.

*Freeman, W. G. The World's Commercial Products. 1907. Ginn. $3.50.

*Gregory, Keller & Bishop. Physical and Commercial Geography. 1910. Ginn. $3.00.

Hungerford, Edward. Modern Railroad. 1911. McClurg. $1.75.

Johnson, E. R. Elements of Transportation. 1909. Appleton. $1.50.

Martin, E. A. Story of a Piece of Coal. Appleton. $0.35.

Mills, J. C. Searchlights on Some American Industries. 1911. McClurg. $1.50.

Mills, J. C. Our Inland Seas. 1910. McClurg. $1.75.

*Moore, J. R. H. Industrial History of the American People. 1913. Macmillan. $1.25.

Morgan, J. O. Field Crops of the Cotton Belt. Macmillan.

Myrick, Herbert. Book of Corn. 2d ed. 1904. Judd. $1.50.

*Ross, Gordon. Argentine and Uruguay. 1916. Macmillan.

*Rutter, W. P. Wheat Growing in Canada, United States and the Argentine. Black. $1.00.

Smith, J. R. The Ocean Carrier. 1908. Putnam. $1.50.

Smith, J. R. Story of Iron and Steel. 1908. Appleton. $0.75.

*Smythe, W. E. Conquest of Arid America, new ed. 1905. Macmillan. $1.50.

Spears, J. R. Story of American Merchant Marine, new ed. 1915. Macmillan. $1.50.

SURFACE, G. T. The Story of Sugar. 1910. Appleton. $1.00.

*TOOTHAKER, C. R. Commercial Raw Materials. Ginn. $1.25.

TOWER, W. S. The Story of Oil. 1909. Appleton. $1.00.

*VAN HISE, C. R. Conservation of Natural Resources in the United States. 1915. Macmillan. $2.00.

WATT, ALEXANDER. Leather Manufacture, 5th ed. 1906. Van Nostrand. $4.00.

WILKINSON, FREDERICK. Story of the Cotton Plant, new ed. 1915. Appleton. $0.50.

WING, H. H. Milk and Its Products, rev. and enl. ed. 1913. Macmillan. $1.50.

ECONOMICS

Also Listed Under Social Sciences

*BULLOCK, C. J. Selected Readings in Economics. 1907. Ginn. $2.25.

*BURCH AND NEARING. Elements of Economics. Macmillan. $1.00.

CLEVELAND, F. A. Funds and Their Uses, rev. ed. 1910. Appleton. $1.25.

DAY, E. Questions on the Principles of Economics. 1915. Macmillan. $0.50.

*DUNCAN, J. C. Principles of Industrial Management. 1911. Appleton. $2.00.

*ELY, R. T. Monopolies and Trusts. 1900. Macmillan. $1.25.

ELY, R. T. The Labor Movement in America, new ed. 1905. Macmillan. $1.25.

*HERRICK, C. Outlines in Economic History. Macmillan.

*SPARLING, S. E. Introduction to Business Organization. 1906. Macmillan. $1.25.

*SEAGER, H. R. Economics, Briefer Course. 1909. Holt. $1.75.

WELD, L. D. The Marketing of Farm Products. 1916. Macmillan. $1.50.

COMMERCIAL ENGLISH

*ALTMAIER, C. L. Commercial Correspondence, rev. ed. 1913. Macmillan. $0.70.

*BUEHLER, H. G. Practical Exercises in English. Amer. Book Co. $0.50.

*BUHLIG, ROSE. Business English. 1914. Heath. $1.10.

DEVINNE, T. L. Correct Composition. 1901. Century. $2.00.

*DAVIS & LINGHAM. Business English and Correspondence. 1914. Ginn. $1.00.

GARDNER, E. H. Effective Business Letters, 2d ed. 1916. Ronald. $2.00.

Knight, M. Practice Work in English. Longmans. $0.60.

Lewis, E. H. Business English. 1915. La Salle Extension University, Chicago. $1.40.

Manly and Powell. Manual for Writers. 1913. University of Chicago Press. $1.25.

Orcutt, W. D. The Writers' Desk Book. Stokes. $0.60.

GENERAL

*Carnegie, Andrew. The Empire of Business. 1902. Doubleday. $3.00.

*Bok, E. W. The Young Man in Business. Caldwell. $0.50.

*Bleyer, W. G. Newspaper Writing and Editing. 1913. Houghton. $1.65.

*Brandeis, L. D. Business: A Profession. 1914. Small. $2.00.

Fowler, N. C. How to Get and Keep a Job. 1907. Oakwood Co. $1.25.

Drysdale, William. Helps for Ambitious Boys. 1907. Crowell. $0.75.

Goe, D. E., ed. The Transaction of Business. 1907. Forbes. $1.00.

*Higinbotham, H. N. Making a Merchant. 1906. Forbes. $1.50.

Hobbs, Edmund. How to Get a Situation. 1904. Estate of E. Hobbs. $1.00.

Marden, O. S. The Young Man Entering Business. 1911. Crowell. $1.00.

Oxley, J. M. The Romance of Commerce. 1907. Crowell. $0.75.

Reid, W., et. al. Careers for the Coming Men. 1904. Saalfield. $1.50.

Rose, W. G. Success in Business. 1913. Duffield. $1.25.

Stoddard, J. S. What Shall I Do? Fifty Profitable Occupations. 1899. Hinds. $1.00.

*Washington, Booker T. Character Building. 1902. Doubleday. $1.50.

*Willard, Frances E. Occupations for Women. 1897. Success Co.

Wilson, C. D. Making the Most of Ourselves. 2 ser. 1905, 1909. Each $1.00.

*Yeats, John. Growth and Vicissitudes of Commerce in All Ages, 3rd ed rev. and enl. 1887. Philip. $1.50.

SALESMANSHIP AND ADVERTISING

Hall. Success in Retailing. Butler Brothers. Free.

Calkins & Holden. Modern Advertising. 1905. Appleton. $1.50.

*Fowler, N. C. Practical Salesmanship. 1911. Little. $1.00. (A treatise on the art of selling.)

KNOX, J. S. Salesmanship and Business Efficiency. 1915. Knox School of Salesmanship and Business Efficiency. $1.75.

*MOODY, W. D. Men Who Sell Things. 1912. McClurg. $1.00.

*NATIONAL CASH REGISTER CO. Ginger Talks to Salesmen.

*NEYSTROM, P. H. Retail Selling and Store Management. 1914. Appleton. $1.50.

*SHAW CO. (Wabash Avenue and Madison Street, Chicago).
Good Will Trade Marks and Unfair Trading. 1914. $2.50.
*How to Write Advertisements That Sell. 1912. $2.00 (with subs. for System).
Sales Correspondence.
*Personal Efficiency in Business.
Credit and Collection Methods. 1913.
*Personal Salesmanship.
*Developing Tact and Persuasive Power.
The Knack of Selling (6 vol.). 1913. $5.00 (with subs. for System).

*SCOTT, WALTER DILL. Psychology of Advertising. 1908. Small. $2.00.

*SCOTT, WALTER DILL. Influencing Men in Business. 1911. Ronald. $1.00.

TAYLOR, H. C. What a Salesman Should Know. 1913. Brown and Howell. $0.75.

TAYLOR, H. C. What an Advertiser Should Know. 1914. Browne and Howell. $0.75.

WOODWORTH, STANLEY. Success in Salesmanship. 1912. American School of Commerce. $1.00.

BUSINESS PRACTICES AND METHODS

*MEADE, E. S. Corporation Finance. 1910. Appleton. $2.00.

*SCHULZE, J. W. The American Office: Its Organization, Management and Records. 1913. Key Pub. Co. $3.00.

*TELLER AND BROWN. First Book in Business Methods, rev. ed. 1915. Rand. $0.75.

MAGAZINES

PRINTES' INK. W. Printer's Ink Pub. Co., N. Y. $2.00.

*SYSTEM. M. A. W. Shaw & Co. $2.00.

*THE AMERICAN GENTLEMAN. M. Amer. Fashion Co., N. Y. $7.50.

THE DRY GOODS ECONOMIST. W. Textile Pub. Co., N. Y. $5.00.

OFFICE APPLIANCES. M. Patterson & Thurman, Chicago. $1.00.

*WORLD'S WORK. M. Doubleday, Page & Co., N. Y. $3.00.

Business and the Bookkeeper.

The Gregg Writer. M. Gregg Pub. Co., Chicago. $1.00.

Advertising and Selling. Advertising & Selling Co.

*Judicious Advertising. M. D. L. Taylor, Chicago. $1.00.

*Federal Trade Reporter. Fed. Trade Service Corporation.

American Penman. Students' ed. M. $0.65. Professional ed. M. $1.00. A. U. Palmer Co., 30 Irving Place, N. Y.

*The Business Journal. M. Business Journal Co., N. Y. $1.00.

Sheldon's Business Philosopher and Salesmanship. M. Chicago. $2.00.

DOMESTIC ECONOMY

The minimum list costs about $12.00.

The longer list costs about $36.00 divided in this way:

Food, $15.00.
Shelter, $12.00.
Textiles, $9.00.

A great many books on clothing have been reviewed in order to get a list considered worth while. So many were out of date or too elementary. In choosing the books on clothing, the committee have endeavored to choose books representing the various aspects of the work covered, such as textiles, sewing and costume design.

In choosing the books on shelter, house construction, decorations, sanitation, etc., were considered. Each book chosen emphasized more or less one phase. Some of these books had parts which were not particularly applicable for high school work, but had some which were. In having high school classes use such books, references would probably have to be made to definite chapters or even pages.

Dress Design for Artists and Dressmakers, by Talbot & Hughes, is very good for history of costume and is a splendid reference if work has to be done on costumes for pageants, plays, etc. It was found most helpful last year in planning for a Shakespearian Pageant.

MINIMUM LIST OF REFERENCE BOOKS FOR HIGH SCHOOL LIBRARIES

Foods and Household Management. Kinne & Cooley. Macmillan. 1914. $1.10.

Emphasis on theoretical side. Information accurate and up to date. Practical side well cared for. Well illustrated. Questions helpful.

BOSTON COOKING SCHOOL COOK BOOK. Farmer, Fannie M. Little, Brown & Co. 1914. $1.80.

An excellent cook book.

TEXT BOOK OF COOKING. Greer, Carlotta. Allyn & Bacon. 1915. $1.25.

Good text book. Preparation of the different foodstuffs. Planning and serving of meals. Fuel values of foods.

HOUSEHOLD TEXTILES. Baker, Charlotte Gibbs. Whitcomb & Barrows. 1913. $1.25.

History, manufacture, purchasing, etc., of textile industry.

SHELTER AND CLOTHING. Kinne & Cooley. Macmillan. 1913. $1.10.

Deals with house construction, heating, ventilating, lighting, sanitation, decoration, and furnishing. Study of textile fibers. Drafting, garment construction. Costume design.

DRESSMAKER, THE. Butterick Pub. Co. 1916. $1.00.

Good directions on stitches, seams and construction of under and outer garment. Well illustrated.

SEWING COURSE, 5th ed. Woolman, Mary. Frederick Fernald, Washington, D. C. 1915. $1.50.

Good directions on stitches, seams, etc. Gives applications of all constructions—good reference for teacher. Not very well illustrated.

FURNISHING OF A MODEST HOME. Daniels, Fred. Atkinson, Mentzer & Co., Chicago. 1908. $1.00.

Very good on house furnishing. Applicable to the average home. Well illustrated. Interesting subject matter.

CLOTHING FOR WOMEN. Baldt, Laura I. J. B. Lippincott, Philadelphia. 1916. $2.00.

Good on textiles and costume design.

GOVERNMENT BULLETINS

CANNING VEGETABLES IN THE HOME. Farmers' Bulletin No. 293.

CANNED FRUITS, PRESERVES AND JELLIES. Farmers' Bulletin No. 359.

HOME MANUFACTURE AND USE OF UNFERMENTED GRAPE JUICE. Farmers' Bulletin No. 173.

CANNING PEACHES ON THE FARM. Farmers' Bulletin No. 426.

SUGAR AND ITS VALUE AS FOOD. Farmers' Bulletin No. 535.

PREPARATION OF VEGETABLES FOR THE TABLE. Farmers' Bulletin No. 256.

*COURSE IN THE USE AND PREPARATION OF VEGETABLE FOODS. Office of Experiment Stations Bulletin No. 245.

CEREAL BREAKFAST FOODS. Farmers' Bulletin No. 249.

Food Value of Corn and Corn Products. Farmers' Bulletin No. 298.

Care of Milk in the Home. Farmers' Bulletin No. 298.

Buttermaking on the Farm. Farmers' Bulletin No. 413.

Detection of Oleomargarine and Renovated Butter. Farmers' Bulletin No. 131.

Eggs and Their Uses as Food. Farmers' Bulletin No. 128.

Meat, Composition and Cooking. Farmers' Bulletin No. 34.

Poultry as Food. Farmers' Bulletin No. 182.

Fish as Food. Farmers' Bulletin No. 85.

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Foods and Sanitation. Forster & Weigley. Row, Peterson & Co. 1914. $1.35.

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Text Book of Cooking. Greer, Carlotta. Allyn & Bacon. 1915. $1.25.

A good text.

Text Book of Domestic Science. Campbell, Matilda. Macmillan. 1913. $0.90.

Deals with problems of food and nutrition and application of heat to foods. Technical skill rather than scientific information seemingly the basis. Theoretical information concisely stated.

Principles of Cooking. Conley, Emma. American Book Co. 1914. $0.52.

Textbook for upper elementary and secondary schools. Logical sequence, valuable illustrations, well organized index.

Nutrition and Diet. Conley, Emma. American Book Co. 1913. $0.60.

Textbook for secondary schools. Part I. Serving of meals easily, quickly, accurately considering cost of food and labor. Part II. Foods—structure, composition, nutritive value, manufacture.

A Study of Foods. Wardell & White. Ginn & Co. 1914. $0.70.

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HUMAN FOODS AND THEIR NUTRITIVE VALUE. Snyder, Harry. Macmillan. 1908. $1.25.

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PURE FOODS. Olsen, John C. Ginn & Co. 1911. $0.80.

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PRINCIPLES OF HUMAN NUTRITION. Jordan, W. H. Macmillan. 1912. $1.75.

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FOOD PRODUCTS. Sherman, Henry C. Macmillan. 1914. $2.25.

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PRACTICAL DIETETICS WITH REFERENCE TO DIET IN DISEASE, 10th ed. Pattee, A. F. A. F. Pattee, Mt. Vernon, N. Y. 1916. $1.50.

Good reference work in invalid cookery.

FOOD AND COOKERY FOR SICK AND CONVALESCENT. Farmer, Fannie. Little, Brown & Co. 1912. $1.60.

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HOW TO BUY FURNITURE FOR THE HOME. Oilar, Forrest L. Oilar Bros., Indianapolis. 1913. $1.50.

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DECORATION OF SCHOOL AND HOME. Dillaway, T. M. Milton Bradley. 1914. $2.00.

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PRINCIPLES OF HOME DECORATION. Wheeler, Candace. Doubleday, Page & Co. 1903. $1.80.

General principles of decoration given. Illustrations of their application. Well written, interesting. Good reference for high school.

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*CHAMBERS, ROBERT. Cyclopedia of English literature. Lippincott. 1915. 3v. $12.

**THE CENTURY CYCLOPEDIA OF NAMES. Century Company. 1914. $7.
This is the 11th volume of the Century Dictionary and Cyclopedia.

HUTTON, LAWRENCE. Literary Landmarks in London. Harper & Bros. 1914. $1.75.

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**GAYLEY, C. M. Classic Myths in English Literature. Ginn & Co. School ed. $1.50.

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DICTIONARY OF NON-CLASSICAL MYTHOLOGY. Dutton & Co. Everyman's Library. $0.40.

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*Walsh, W. S. Handy-book of Literary Curiosities. Lippincott. 1893. $3.50.

Allibone, S. A. Critical Dictionary of English Literature and British and American Authors. Lippincott. 1908. 5v. $17.50.

Lippincott's Pronouncing Dictionary of Biography and Mythology. Lippincott. 1905. $15.00.

*Wheeler, W. A. Explanatory and Pronouncing Dictionary of Noted Names of Fiction. Houghton, Mifflin Co. 1892. $2.00.

**Bartlett, John. Familiar Quotations. Little, Brown & Co. 1891. $3.00.

Harper's Dictionary of Classical Literature and Antiquities. Harper & Bros. 1896. $6.00.

*Crabb, Geo. English Synonyms. Harper. $1.25.

**Fernald, J. C. English Synonyms and Antonyms. Funk & Wagnalls. $1.50.

*Roget, P. M. Thesaurus of English Words and Phrases. Crowell. $1.00. Also in Everyman's Library. Dutton. $0.40.

Phyfe, W. H. P. Twelve Thousand Words Often Mispronounced. G. P. Putnam's Sons. 1914. $1.25.

*Wheeler, W. A. Explanatory and Pronouncing Dictionary of Noted Names of Fiction. Houghton, Mifflin Co. $2.00.

*Granger, Edith. Index to Poetry and Recitations. McClurg & Co. 1904. $5.00.

Loring, Andrew. Rhymer's Lexicon. Routledge, n. d. $1.35.

**True, Blanche L. Literary Map of the British Isles. Rand, McNally. 1916. $6.50—$10.00.

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*Holt, L. H. Leading English Poets from Chaucer to Browning. Houghton, Mifflin. 1915. $2.25.

**Couch, Arthur Quiller—. Oxford Book of English Verse. Ox. Univ. Press. 1914. $2.00.

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Century of Essays. Dutton. Everyman's Library. 1916. $0.40.

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*Matthews, J. Brander. Development of the Drama. Scribner. 1903. $1.25.

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Laselle, Mary A. Dramatization of School Classics. Educational Publishing Co. 1911. $0.40.

McFadden, E. A., and Davis, L. E. Select List of Plays for Amateurs and Students. McFadden, Cincinnati. 1908. $2.00.

Hunt, Elizabeth R. The Play of Today. Lane. 1914. $1.50.

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YEATS, W. B. Hour-glass and Other Plays. Macmillan. 1904. $1.25.

Contains Hour-glass, Cathleen Ni Hoolihan, Pot of Broth.

YEATS, W. B. Poetical Works. Macmillan. 1906-1907. 2 vols. $1.75 each.

YEATS, W. B. Land of Heart's Desire. Dodd, Mead. 1909. $0.25.

SYNGE, JOHN. Riders of the Sea. J. W. Luce. 1911. $0.50.

SYNGE, JOHN. Well of the Saints. Luce. 1911. $1.25.

SYNGE, JOHN. Playboy of the Western World. Luce. $1.00.

GREGORY, AUGUSTA, LADY. Seven Short Plays. Luce. $1.50.

GREGORY, AUGUSTA, LADY. Comedies. Putnam. 1913. $1.50.

GEOGRAPHY

I. A MINIMUM LIST

Physiography (briefer course). SALISBURY, R. D. Holt. $1.50.
Elements of Physical Geography. HOPKINS, T. C. Sanborn. $1.35.
Physical Geography. DRYER, C. R. W. American Book Co. $1.20.
High School Geography. DRYER, C. R. W. American Book Co. $1.20.
Physical Geography. TARR, R. S. Macmillan. $1.40.
Physical Geography. DAVIS, W. M. Ginn. $1.25.
Physical Geography. GILBERT and BRIGHAM. Appleton. $1.25.
Physical Geography. REDWAY, J. W. Scribner. $1.25.
Elements of Geography. SALISBURY, BARROWS and TOWER. Holt. $1.50.
Commercial Geography. BRIGHAM, A. P. Ginn. $1.30.
Commerce and Industry. SMITH, J. R. Holt. $1.40.
Interpretation of Topographic Maps. SALISBURY and ATWOOD. Professional Paper Co. U. S. Geological Survey.
Commercial Raw Materials. TOOTHAKER, C. R. Ginn & Co. $1.25.
Soil. KING, F. H. Macmillan. $1.50.
Elements of Astronomy. YOUNG, C. A. Ginn. $1.60.
Mathematical Geography. JOHNSON, W. E. American Book Co. $1.00.
Geology. BLACKWELDER and BARROWS. American Book Co. $1.40.
Climate and Meteorology:
About the Weather. HARRINGTON, M. W. Appleton. $0.60.
Elementary Meteorology. DAVIS, W. M. Ginn & Co. $2.50.
Elementary Meteorology. WALDO, F. American Book Co. $1.50.
Practical Exercises in Elementary Meteorolgy. WARD, R. D. Ginn & Co. $1.12.
International Geography. MILL, H. R. Appleton. $3.50.
Essentials of Geography. BRIGHAM and MCFARLANE. American Book Co. $2.06. (To be used chiefly as an atlas).
Geographical Influences on American History. BRIGHAM, A. P. Ginn & Co. $1.25.
Conservation of Natural Resources. VAN HISE. Macmillan. $2.00.
Man and His Work. HERBERTSON & HERBERTSON. Macmillan. $0.60.

II. A longer list of references for larger High Schools and other Schools desiring a more complete Reference Library. Those starred are regarded as most suitable for schools that cannot get all of these books.

PHYSIOGRAPHY

*Physiography, Advanced Course. SALISBURY. Holt. 1909. $3.50.
Geographical Essays, Ed. by D. W. Johnson. W. M. DAVIS. Ginn & Co. 1909. $2.75.
Physiography of the United States Monographs. American Book Co.
Forest Physiography. BOWMAN, I. John Wiley & Sons. $5.00.
*Rocks and Minerals. FAIRBANKS, H. W. Educational Pub. Co. $0.60.
Common Minerals and Rocks. CROSBY, W. O. D. C. Heath & Co. $0.60.

GEOLOGY

*Elements of Geology. BLACKWELDER & BARROWS. American Book Co. $1.40.
*College Geology. CHAMBERLAIN & SALISBURY. Holt. $3.50.

METEOROLOGY AND CLIMATE

Our Own Weather. MARTIN, E. C. Harper. $1.25.
*Meteorology. MILHAM. Macmillan Co. $4.50.
Physical Atlas. Vol. III, Meteorology. BARTHOLOMEW, J. G. Lippincott. $17.50.
Descriptive Meteorology. MOORE, W. L. Appleton. 1910. $3.00.
The Weather of Chicago. COX & ARMINGTON. Univ. of Chicago Press. $3.00.

MATHEMATICAL GEOGRAPHY

*Mathematical Geography. JOHNSON, W. E. American Book Co. $1.00.

REGIONAL, PHYSICAL, POLITICAL AND DESCRIPTIVE GEOGRAPHY

The Nearer East. HOGARTH. Appleton. $2.00.
India. HOLDICH. Appleton. $2.50.
The Far East. LITLE. Appleton. $2.00.
Britain and the British Seas. MAKINDER. Appleton. $2.00.
Central Europe. PARTSCH. Appleton. $2.00.
*North America. RUSSEL. Appleton. $2.00.
Rivers of North America. RUSSEL. Putnam. $2.00.
Lakes of North America. Ginn & Co. $1.50.
Glaciers of North America. RUSSEL. Ginn & Co. $1.75.
Australia, Physiographic and Economic. Clarendon Press. $0.90.

South America. BOWMAN. Rand, McNally & Co. $0.75.

Asia. HUNTINGTON. Rand, McNally & Co. $0.75.

*New Geography, Book II. TARR & MCMURRY. Macmillan Co. 1910. $1.10.

*Essentials of Geography, 1st and 2d Book. BRIGHAM and MACFARLANE. American Book Co. $2.06.

Modern Geography. NEWBIGIN, M. I. Holt. 1911. $0.50.

*Atlas of Canada. Minister of the Interior. Ottawa, Can.

*Geography of Chicago and Its Environs. SALISBURY & ALDEN. Univ. of Chicago Press. $0.35.

Campfires in the Canadian Rockies. HORNADAY, W. T. Scribner. $3.00.

Campfires on Desert and Lava. HORNADAY, W. T. Scribner. $3.00.

Our Southern Highlanders. KEPHART, HORACE. Outing Pub. Co. 1913. $2.50.

African Game Trails. ROOSEVELT. Scribner. 1910. $4.00.

*Republics of Central and South America. ENOCK, C. G. Scribner. 1913. $3.00.

Story of Great Lakes. CHANNING and LANSING. Macmillan. 1909. $1.50.

COMMERCIAL GEOGRAPHY

*Handbook of Commercial Geography. CHISHOLM. Longmans. $4.80.

*Industrial and Commercial Geography. SMITH, J. R. Holt. 1913. $3.50.

Physical and Commercial Geography. GREGORY, KELLER and BISHOP. Ginn & Co. 1910. $3.00.

Man and His Markets. LYDE. Macmillan. $0.50.

From Trail to Railway. BRIGHAM, A. P. Ginn & Co. 1907. $0.50.

*Ocean and Inland Water Transportation. JOHNSON. Appleton. $1.50.

COMMODITIES AND INDUSTRIES

*The World's Commercial Products. FREEMAN and CHANDLER. Ginn & Co. 1907. $3.50.

Commercial Raw Materials. TOOTHAKER, C. R. Ginn & Co. School ed. $1.25.

The Book of Wheat. DODLINGER. Orange Judd Co. $1.75.

The Cereals in America. HUNT. Orange Judd Co. $1.75.

The Story of Iron and Steel. SMITH. Appleton. $0.75.

The Story of Paper Making. BUTLER, F. O. Butler Paper Co. $1.25.

The Story of Sugar. SURFACE. Appleton. $1.00.

The Story of Oil. TOWER. Appleton. $1.00.
*Industrial Studies, U. S. ALLEN, N. B. Ginn. 1910. $0.65.
Industrial Studies, Europe. ALLEN, N. B. Ginn. 1913. $0.80.

ATLASES

*Essentials of Geography. BRIGHAM and MCFARLANE. Amer. Bk. Co. 1916. First book, $0.72. Second book, $1.24.
*Schul Atlas. DIERCKE, PAUL. Longmans. 1914. $1.50.
*New School Atlas. CHISHOLM & LEETE. Longmans. $1.50.
*A School Economic Atlas. BARTHOLOMEW, J. G. Oxford. 1910. $0.85.
Various Atlases. Rand, McNally & Co.
Atlas of World's Commerce. BARTHOLOMEW, J. G. Scribner. $4.50.
Comparative Atlas, 4th ed. rev. BARTHOLOMEW, J. G. Meiklejohn & Holden. 1905. $2.75.

MISCELLANEOUS

Plant Geography. SCHIMPER, A. F. W. Oxford Uni. Press. $12.75.
*Plant Societies of Chicago and Vicinity. COWLES. Uni. of Chi. Press. $0.50.
Animal Geography. NEWBIGIN, M. I. Oxford Uni. Press. 1913. $1.15.
*Animal Communities in Temperate America. SHELFORD. Uni. of Chi. Press. $3.00.
The Races of Europe. RIPLEY, W. Z. Appleton. $5.00.
The Men of the Old Stone Age. OSBORN, H. F. Scribner. $3.00.
The Passing of the Great Race. GRANT, MADISON. Scribner. 1916. $2.00.
*American History and Its Geographic Conditions. SEMPLE, E. C. Houghton. 1913. $3.00.
Influence of Geographic Environment. SEMPLE, E. C. Holt. 1911. $4.00.

RESOURCES

*Soil. KING, F. H. Macmillan. 1907. $1.50.
*Soil Fertility and Permanent Agriculture. HOPKINS, C. G. Ginn. 1910. $2.25.
*American Woods. HOUGH, R. B. Hough, 1888-1913. Pts. 1-12 ea. $5.00.
*Conservation of Natural Resources in the United States. VAN HISE. Macmillan. $2.00.
Irrigation. NEWELL. Crowell. $2.00.

Irrigation and Drainage, 5th ed. KING, F. H. Macmillan. 1908. $1.50.

STATISTICS

World Almanac. N. Y. World. N. Y. $0.25.
Statesman's Yearbook. Macmillan Co. $3.00.
Statistical Abstract of Foreign Countries. $0.50.

WALL MAPS

Goode's Series. Rand, McNally & Co.
Johnston's Series. Nystrom & Co.
Johnston's Commercial Map of the World. Nystrom & Co.

UNITED STATES GOVERNMENT PUBLICATIONS

Many of the government publications may be obtained without cost from the Congressman or the Department.

By the U. S. Geological Survey:

Bulletin 394. Papers on the Conservation of Mineral Resources.
Bulletin 599. Our Mineral Reserves.
Bulletin 442-A. Alaska Coal and Its Utilization.
Mineral Resources. Mineral Resources of the United States. (Annual.)
Water Supply Paper 234. Conservation of Water Resources.
Water Supply Paper 355. Underground Water for Farm Use. MYRON L. FULLER.
Water Supply Paper 239. Quality of the Surface Waters of Illinois. W. D. COLLINS.
Bulletin 274. Dictionary of Altitudes in the United States.
Yellowstone National Park Folio.
Monograph XXXVIII. The Illinois Glacial Lobe. FRANK LEVERETT.
Monograph XLI. Glacial Formations and Drainage Features of the Erie and Ohio Basins. LEVERETT.
Monograph LIII. The Pleistocene of Indiana and Michigan and the History of the Great Lakes. LEVERETT and TAYLOR.
Professional Paper 71. Index of Stratigraphy of North America. BAILEY WILLIS. (Contains Geological Map of North America.) (Supt. of Documents.)
Professional Paper 60. Interpretations of Topographic Maps. SALISBURY and ATWOOD. (Supt. of Documents.)

Professional Paper 72. Denudation and Erosion in the Southern Appalachians. L. C. GLENN. (Supt. of Documents.)

Guide Books of Western United States:

Part A—The Northern Pacific Route.

Part B—The Overland Route.

Part C—The Santa Fe Route.

Part D—The Shasta Route and Coast Line.

List of the Publications of the United States Geological Survey. (Free.) Address the Director of U. S. Geological Survey.

From United States Department of Agriculture:

Year Book of the Department of Agriculture. (Annual.) $0.75.

Forests:

Forest Service, Bulletin 83. Forest Resources of the World. RAPHAEL ZON. (Supt. of Documents.)

Farmers Bulletin 173. A Primer of Forestry. Part I. PINCHOT.

Farmers Bulletin 358. A Primer of Forestry. Part I. G. PINCHOT.

Forest Service Circular 116. The Waning Hardwood Supply and the Appalachian Forests. WILLIAM L. HALL.

Forest Service Circular 129. The Drain Upon the Forests.

Forest Service Circular 159. The Future Use of Land in the United States. RAPHAEL ZON.

Forest Service Circular 166. The Timber Supply of the United States.

Forest Service Circular 167. The Status of Forestry in the United States. CLEVELAND.

Forest Service Circular 171. Forests of the United States, Their Use.

Forest Service Circular 143. The Relation of the Southern Appalachians to Inland Water Navigation.

Forest Service Circular 144. The Relation of the Southern Appalachians to the Development of Water Power.

Forest Bulletin 177. Forest Fires. Their Causes, Extent and Effect.

Forest Bulletin 44. Diminished Flow of Rock River in Wisconsin and Illinois and Its Relation to Surrounding Forests.

Forest Bulletin 17. Check List of Forest Trees of the United States.

Forest Maps—

Wall Map of the United States showing Original Forests.

Wall Map of the United States showing the National Forests.

Bureau of Soils—Bulletin 85. A Study of Soils of the United States.

Soil Survey of Various Areas. Especially of your county, if published.

Office Experiment Stations—Circular 76. Swamp and Overflowed Lands in the United States, Their Ownership and Reclamation.

Weather Bureau—Bulletin V. Frost Data of the United States.

Length of Crop Growing Season from the Average of the Latest and Earliest Dates of Killing Frosts.

Alaska Agricultural Experiment Station's Report—Annual. (Supt. of Documents.)

List of Publications—Secretary of Agriculture.

Publications of the Department of Commerce:

Statistical Atlas of the Thirteenth Census.

Statistical Abstract. (Annual.)

List of Publications. Secretary of Department of Commerce.

ILLINOIS STATE PUBLICATIONS

From the State Geological Survey, F. W. DeWolf, Director, Urbana, Ill.:

Educational Bulletins.

7. Physical Geography of the Evanston-Waukegan Region. ATWOOD and GOLDTHWAIT.
11. The Physical Features of the Desplaines Valley. GOLDTHWAIT.
12. The Mississippi Valley between Savanna and Davenport. CARMEN.
13. Physiography of St. Louis Area. FENNEMAN.
15. Geography of the Middle Illinois Valley. BARROWS.
19. Geology and Geography of the Wheaton Quadrangle. TROWBRIDGE.
26. Geology and Geography of the Elizabeth and Galena Quadrangle. TROWBRIDGE, SHAW and SHOCKEL.
27. Geography of the Upper Illinois Valley. SAUER.

Geological Map of Illinois.

Base Map of Illinois.

(See List of Publications for prices on above.)

From the College of Agriculture, Urbana, Ill.:

Bulletin 123. The Fertility of Illinois Soils.
Soil Map of Illinois.
Soil survey of your county, if published.
List of Publications.

From the Secretary of State, Springfield, Ill.

List of Publications. (Free.)
Illinois Blue Book.
Annual Coal Report.
Bulletin of Rivers and Lakes Commission.

BOOKS UPON MINING AND ALLIED SUBJECTS

List by Professor H. H. Stoek, Dept. Mining Engineering, Univ. of Illinois

Romance of Modern Engineering. A. Williams. Lippincott. $1.25.
Romance of Mining. A. Williams. Lippincott. $1.25.
Diamond Mines of South Africa (2 vols.). J. G. Williams. Buck & Co., N. Y. $8.50.
Introduction of Mining Science. Coppock & Lodge. Longmans, Green. $0.60.
Practical Coal Mining. G. L. Kerr. C. Griffin & Co. $1.25.
Minerals and Metals. J. G. Goesel. John Wiley & Sons, N. Y. $3.00.
Through the Yukon and Alaska. T. A. Rickard. Mining and Scientific Press, San Francisco, Cal. $2.25.
The Business of Mining. A. J. Hoskins. Lippincott. $1.50.
The Story of American Coals. Wm. J. Nichols. Lippincott. $2.00.
Journeys of Observation. T. A. Rickard. Dewey Pub. Co., San Francisco. $3.50.
Coal Mining. T. H. Cockin. N. W. Henley. $2.00.
First Lessons in Coal Mining. W. Glover. Crosby-Lockwood & Son. $0.25.
Letters and Recollections of Alexander Agassiz. G. R. Agassiz. Houghton, Mifflin Co. $3.50.
Story of the Mine. C. H. Shinn. Appleton & Co. $1.00.
Romance of the Mighty Deep. Agnes Geberne. Seeley & Co. $2.00.
History of Geology. H. B. Woodward. G. P. Putnam's Sons. $0.75.
Rivers of North America. J. C. Russell. G. P. Putnam Sons. $2.00.
Earth Sculpture. James Geike. G. P. Putnam Sons. $2.00.
Volcanoes. T. G. Bonney. G. P. Putnam Sons. $2.00.
Earthquakes. Denton. G. P. Putnam Sons. $2.00.
Story of the Earth. D. Appleton. $0.40.

Story of the Earth's Atmosphere. D. Appleton & Co. $0.40.
Story of a Piece of Coal. D. Appleton & Co. $0.40.
Story of Plants. D. Appleton & Co. $0.40.
Story of the Hills. H. N. HUTCHINSON. Macmillan Co. $2.50.

Cambridge Manuals of Science and Literature:

Natural History of Coal. E. A. N. ARBER. G. P. Putnam's Sons. $0.45.
Origin of Earthquakes. C. DAVISON. G. P. Putnam's Sons. $0.45.
Work of Rain and Rivers. T. G. BONNEY. $0.45.
Glaciers and Ice Sheets. GARWOOD. $0.45.
The Earth. POYNTING. G. P. Putnam's Sons. $0.45.
Metals. LAMPLOUGH. G. P. Putnam's Sons. $0.45.
Natural Caves and Fissures. A. RULE. G. P. Putnam's Sons. $0.45.
Submerged Forests. C. REID. $0.45.
Coal Mining. CANTRELL. G. P. Putnam's Sons. $0.45.
Rocks and Their Origin. G. H. J. COLE. G. P. Putnam's Sons. $0.45.
The Atmosphere. JOHN COX. G. P. Putnam's Sons. $0.45.
Physics and Chemistry of Mining. T. H. BYRON. N. W. Henley. $1.50.

LIBRARY AND STUDY ROOM, CLEVELAND HIGH SCHOOL, ST. LOUIS

Visit to a Coal Mine. A. O. Cook. World at Work Series. Doran. $0.35.

Untechnical Addresses on Technical Subjects. Jas. Douglas. Wiley. $1.00.

A Year in a Coal Mine. J. B. Husband. Houghton, Mifflin Co. $1.25.

Coal. James Tonge. Van Nostrand. $2.00.

Story of Petroleum. W. S. Tower. Appleton. $0.40.

Story of Iron and Steel. J. R. Smith. Appleton. $0.40.

Story of Gold Mining. E. S. Meade. Appleton. $0.40.

Iron and Steel. C. Hood. Pitman & Sons, London.

Digging Gold Among the Rockies. G.T. Ingram. Cottage Library Pub. Co., Philadelphia, Pa. $1.75.

History of Gems of North Carolina. G. F. Kunz. Bull. 12, N. C. Geological Survey, Chapel Hill, N. C. $0.10.

Lead and Zinc Deposits of Northwestern Illinois. G. H. Cox. Bull. 21, Ill. Geol. Survey, Urbana, Ill.

The mining departments and geological surveys of a number of the states issue educational bulletins. Lists of these and prices can be had by addressing the Geol. Survey or Bureau of Mines at the capital of each state.

MANUAL ARTS

List of Books on Manual Training for a Small School Library. Report of Committee on Text Books, A. C. Newell, Chairman of Committee.

BENCHWORK IN WOOD

Correlated Courses in Woodwork and Mechanical Drawing. GRIFFITH, IRA S. Manual Arts Press. 1912. $1.50.

Design and Construction in Wood. NOYES, WILLIAM. Manual Arts Press. 1913. $1.50.

Essentials of Woodworking. GRIFFITH, IRA S. Manual Arts Press. 1915. $0.75.

Furniture Upholstering. STEPHENSON, J. W. Clifford & Lawton. 1914. $3.50.

Handwork in Wood, 6th ed. NOYES, WILLIAM. Manual Arts Press. 1915. $2.00.

Manual Training Toys. MOORE, H. W. Manual Arts Press. 1912. $1.00.

Problems in Furniture Making, 4th ed. CRAWSHAW, F. D. Manual Arts Press. 1912. $1.00.

Woodwork for Secondary Schools. GRIFFITH, IRA S. Manual Arts Press. 1916. $1.75.

WOOD TURNING AND PATTERN MAKING

Problems in Wood Turning. CRAWSHAW, F. D. Manual Arts Press. 1909. $0.80.

Wood Turning. Ross, G. A. Ginn & Co. 1909. $1.20.

Wood Pattern Making. PURFIELD, H. T. Manual Arts Press. 1916. $1.00.

LIST OF BOOKS ON MANUAL TRAINING FOR A LARGE SCHOOL LIBRARY, BY A. C. NEWELL, CHAIRMAN OF COMMITTEE.

I. WOODWORKING

(Include also all books given in the list for a Small Library.)

Beginning Woodwork. VAN DEUSEN, C. S. Manual Arts Press. 1907. $1.00.

Benchwork in Wood. Goss, W. F. M. Ginn & Co. $0.70.

Cabinetwork and Joinery. HASLUCK, P. N. McKay. 1908. $3.00.
Constructive Carpentry. KING, C. A. Amer. Book Co. 1912. $0.70.
Elementary Cabinet Work. SELDEN, F. H. Rand, McNally & Co. 1909. $1.00.
Elementary Woodwork. SELDEN, F. H. Rand, McNally & Co. 1906. $1.00.
Elementary Woodworking. FOSTER, E. W. Ginn & Co. 1903. $0.75.
Educational Woodworking for School and Home. PARKS, J. C. Macmillan. 1908. $1.00.
Furniture Designing and Draughting, 3rd ed. NYE, A. C. W. J. Comstock. 1914. $2.00.
Teacher's Handbook of Slöjd, 3rd ed. SALOMON, NORDENDAHL and JOHANSSON. Silver. 1907. $1.50.
Handbook of Trees of Northern States and Canada. HOUGH, R. B. Hough. 1907. $8.00.
Up-to-Date Hardwood Finisher. HODGSON, F. T. F. J. Drake. 1915. $1.00.
Kitecraft and Kite Tournaments. MILLER, C. M. Manual Arts Press. 1914. $1.00.
Mission Furniture and How to Make It, Parts 1, 2, 3. Popular Mechanics Co. $1.50.
Modern Cabinet Work. WELLS and HOOPER. Lane. 1910. $5.00.
Manual Training for Common Schools. ALLEN, E. G. Scribner. 1910. $1.00.
Problems in Carpentry. ROEHL, LOUIS. Webb Pub. Co. 1913. $1.00.
Problems in Farm Woodwork. BLACKBURN, S. A. Manual Arts Press. 1915. $1.00.
Problems in Woodworking. MURRAY, M. W. Manual Arts Press. 1916. $0.75.
Timber (Bulletin 10, Forestry Division). ROTH, FILIBERT. Superintendent of Documents, Washington, D. C. 1895.
The Decay of Timber (Bulletin 14, Plant Industry Bureau). VON SCHRENK, H. Supt. of Documents, Washington, D. C. 1902. $0.55.
The Modern Wood Finisher, 6th ed. MAIRE, F. Comstock. $0.50.
The Seasoning of Timber (Bulletin 41, Forestry Bureau). VON SCHRENK and HILL. Supt, of Documents, Washington, D. C. 1903.
The Steel Squares. HODGSON, F. T. Industrial Pub. Co. $0.50.
Wood and Forest. NOYES, WILLIAM. Manual Arts Press. 1912. $3.00.

High School Manual Training Course in Woodwork. RITCHEY, SAMUEL. Amer. Bk. Co. $1.45.

Woodworking. HASLUCK, P. N. McKay. 1907. $2.50.

II. ELEMENTARY MECHANICAL DRAWING

Letters and Lettering. BROWN, F. C. Bates & Guild Co. 1902. $2.00.

Problems in Mechanical Drawing. BENNETT, C. A. Manual Arts Press. $0.75.

Lettering for Draftsmen. REINHARDT, C. W. Van Nostrand. 1914. $1.00.

Mechanical Drawing for Secondary Schools. CRAWSHAW and PHILLIPS. Scott, Foresman & Co. 1916. $1.00.

Mechanical Drafting. MILLER, H. W. Manual Arts Press. 1915. $1.50.

III. ELEMENTARY MACHINE DRAWING

Constructive Drawing for Secondary Schools, Book 2. SPINK and others. Atkinson. 1915. $0.95.

Brief Course in Machine Drawing. MATHEWSON, F. E. Spon. $0.40.

Machinery's Reference Series, Nos. 85, 86, 87, 88. Machinery Pub. Co. (Probably 25c each.)

Mechanical Drawing for Trade Schools. LEEDS, C. C. Van Nostrand. 1916. $2.00.

IV. ORTHOGRAPHIC PROJECTION

Introductory Course in Mechanical Drawing. TRACY, J. C. Amer. Bk. Co. $1.80.

V. ARCHITECTURAL DRAWING

Architectural Drawing. EDMINSTER, C. F. Williams. $2.00.

Architectural Perspective for Beginners. WRIGHT, F. A. Comstock. $5.00.

Detailed Working Drawings of the Five Orders of Architecture. BALL, T. Comstock. 1908. Portfolio edition, $4.00. School edition, $6.50.

Additional Books on Mechanical Drawing for a Large School Library. Include also all books on the short list. By A. C. Newell.

Agricultural Drafting. HOWE, C. B. Wiley. 1913. $1.25.

Architectural Drawing. GREENBURG and HOWE. Wiley. 1913. $1.50.

Elementary Course in Mechanical Drawing. CHASE, A. W. Howland Speakman. 1904. $1.50.

Elementary Mechanical Drawing. WEICK, C. W. McGraw-Hill. 1915. $1.75.

Machine Drawing. J. S. and DAVID REED. Wiley. $3.00.

Constructive Drawing for Secondary Schools. Book I. SPINK and others. Atkinson. 1915. $0.80.

Mechanical Drawing. PHILLIPS and ORTH. Scott, Foresman & Co. 1915. $1.75.

Mechanical Drawing. ANTHONY, G. C. Heath. $1.50.

Mechanical Drawing. CROSS, A. K. Ginn & Co. $1.00.

Notes for Mechanical Drawing. MATHEWSON, F. E. Taylor, Holden Co. $1.25.

Perspective Sketching from Working Drawings. MATHEWSON, F. E. Taylor, Holden Co. 1908. $1.00.

The Essentials of Lettering, 3rd ed. FRENCH and MEIKELJOHN. McGraw-Hill Book Co. 1912. $1.00.

List of Books on Manual Training in Education for a School Library, by A. C. Newell.

Educational Meaning of the Manual Arts and Industries. Row, R. K. Rowe, Peterson & Co. 1909. $1.25.

Education for Efficiency. DAVENPORT, E. Heath. 1914. $1.25.

Examples of Industrial Education. LEAVITT, F. M. Ginn & Co. 1912. $1.25.

Illustrated Manual of Hand and Eye Training. GOETZE, DR. W. O. Newman & Co., London. 1894.

Handwork Instruction for Boys (Trans. from the German.) PABST, ALWIN. Manual Arts Press. 1910. $1.00.

Industrial Education. PERSON, H. S. Houghton. 1907. $1.00.

Manual Arts for Vocational Ends. CRAWSHAW, F. D. Manual Arts Press. 1912. $0.85.

Manual Training (old book). WOODWARD, C. M. Heath.

Theory of Educational Sloyd (old book). SALOMON, OTTO. Silver. $1.25.

The Worker and the State. DEAN, A. D. Century. 1910. $1.20.

Sloyd System of Woodworking. HOFFMAN, B. B. Amer. Bk. Co. $1.00.

Mind and Hand (old book). HAM, C. H. Amer. Bk. Co. $1.25.

VI. MISCELLANEOUS BOOKS

Choosing a Vocation. PARSONS, FRANK. Houghton. 1909. $1.00.

Education for Citizenship. KERSCHENSTEINER, G. M. A. Rand, McNally & Co. 1911. $0.75.

Education for Industrial Workers. SCHNEIDER, HERMAN. World Book Co. 1915. $0.90.

Industrial Education. LEAKE, A. H. Houghton. 1913. $1.25.

Printing and Book Binding. VAUGHN, S. J. Public School Pub. Co., Bloomington. 1914. $1.00.

The Vocational Guidance of Youth. BLOOMFIELD, MEYER. Houghton. 1911. $0.60.

Vocational and Moral Guidance. DAVIS, J. B. Ginn & Co. 1914. $1.25.

Vocational Guidance. PUFFER, J. A. Rand, McNally & Co. 1913. $1.25.

Vocational Education. GILLETTE, J. M. Amer. Book Co. 1910. $1.00.

Vocational Education. SNEDDEN, D. S. Houghton. 1915. $1.20.

Profitable Vocations for Girls. WEAVER, E. W. A. S. Barnes Co. 1915. $0.75.

Manual of Wood Carving. LELAND, C. G. Scribner. $1.75.

VII. BOOKS ON ART METAL WORKING

Art Metalwork with Inexpensive Equipment. PAYNE, A. F. Manual Arts Press. 1914. $1.50.

Copper Work. ROSE, A. F. Atkinson. 1906. $1.50.

Industrial Arts Design. VARNUM, W. H. Scott, Foresman Co. 1916. $1.50.

Metal Work and Etching. ADAMS, J. D. Popular Mechanics Co. 1911. $0.50.

Hand-Wrought Jewelry. SORENSON and VAUGHN. Bruce Pub. Co. 1916. $1.00.

VIII. DESIGN

Industrial Arts Design. VARNUM, W. H. Scott, Foresman Co. 1916. $1.50.

Classroom Practice in Design. HANEY, J. P. Manual Arts Press. 1907. $0.50.

Book of Studies in Plant Form with Some Suggestions for Their Application to Design. MIDGLEY and LILLEY. Scribner. 1907. $2.00.

The Use of the Plant in Decorative Design, Parts 1, 2, 3, 4, 5. LAWRENCE and SHELDON. Scott, Foresman & Co. 1912. $1.25.

Theory and Practice of Teaching Art. DOW, A. W. Teachers College, Columbia, N. Y. 1912. $1.50.

Industrial Art Text Books, Parts 1, 2, 3, 4, 5. SNOW and FROEHLICH. Prang & Co. 1916. $0.25 each.

Design in Theory and Practice. BATCHELDER, E. A. Macmillan. 1910. $1.75.

Principles of Design, 3rd ed. BATCHELDER, E. A. Inland Printer Co. 1908. $3.00.

Art Education for High Schools. PRANG EDUCATIONAL CO. Prang Educational Co. 1908. $1.25.

IX. LIST OF BOOKS ON METAL WORKING

Machine Shop Practice, 2d ed. KAUP, W. J. Wiley. 1914. $1.25.

The Starrett Book for Machinists' Apprentices. FAIRFIELD and DOW. Starrett Co., Athol, Mass. 1915. $0.50.

Forge Practice. BACON, L. Wiley. $1.50.

Notes for Forge Shop Practice. LITTLEFIELD, J. D. Taylor Holden. 1910. $1.05.

Handbook of Practical Smithing and Forging. MOORE, THOMAS. Spon. 1914. $1.50.

Farm Blacksmithing. DREW, J. M. Webb Pub. Co. $0.50.

Hand-Forging and Wrought-Iron Ornamental Work. GOOGERTY, T. F. Popular Mechanics Co. 1911. $1.00.

Forge Work. ILGEN, W. L. Amer. Bk. Co. 1912. $0.80.

MATHEMATICS

A Bibliography of Mathematical Works Suitable for High School Libraries.

Prepared by E. H. Taylor.

This bibliography is based on the one published in 1911 by Professors David Eugene Smith and Clifford Brewster Upton of Teachers College, Columbia University. Nearly all of the titles and the accompanying comments of the original bibliography have been retained and a number of more recent titles have been added.

Two lists of books that are thought to be especially valuable for high school teachers and students have been added. One of these lists can be bought for about ten dollars and the other for about twenty-five dollars.

BOOKS ON ALGEBRA FOR HIGH SCHOOL STUDENTS

AUERBACH. Graphic Mathematics. Allyn & Bacon. $0.35.
An excellent treatment, covering the high school needs.

BOOLE. Philosophy and Fun of Algebra. C. W. Daniel, London. 2 shillings.

DUPUIS. The Principles of Elementary Algebra. Macmillan. $1.25.
This valuable little work contains several topics not found in the ordinary algebra.

FINE. Number Systems of Algebra. Heath. $1.00.
An excellent introduction to the notions of higher algebra.

NIPHER. Introduction to Graphic Algebra. Holt. $0.60.
Broader than the usual elementary graphic work of algebra.

RADHAKRISHNA. Elementary Algebra. Srinivasa, Varadachari & Co., Madras. About $2.00.
Somewhat different from the usual American textbook.

SCHULTZE. Graphic Algebra. Macmillan. $0.80.
An interesting and suggestive treatment of graphic work.

BOOKS ON GEOMETRY FOR HIGH SCHOOL STUDENTS

CASEY. The First Six Books of the Elements of Euclid. Longmans. $1.40.

CASEY. Sequel to Euclid. Longmans. $1.10.
An excellent work for students, carrying geometry beyond the usual limits of the high school and a little way into the domain of modern geometry.

DUPUIS. Elementary Synthetic Geometry. Macmillan. $1.25.
Contains some interesting topics not usually found in geometry.

FAILOR. Inventional Geometry. Century Co. $0.60.

GODFREY and SIDDONS. Modern Geometry. Putnam. $1.50.

HENRICI. Congruent Figures. Longmans. $0.50.
A pleasant little primer presenting geometry from the standpoint of symmetry and duality.

MANNING. Geometry of four dimensions. Macmillan. $2.00.

MANNING. Non-Euclidean Geometry. Ginn. $0.75.
An elementary presentation of geometry as it would appear if we would deny the parallel postulate of Euclid.

ROW. Geometric Paper Folding. Open Court Pub. Co. $1.00.
A work that shows how, by means of paper folding, a considerable range of geometry may be covered.

YOUNG and YOUNG. First Book of Geometry. Dent. $0.50.
An elementary concrete presentation of geometry, making use of paper folding. Beautifully illustrated.

BOOKS ON THE TEACHING OF MATHEMATICS, PRIMARILY FOR TEACHERS

BENEDICT and CALHOUN. Teaching of Plane Geometry. University of Texas, Austin.
Discusses the reasons for studying geometry and methods of teaching. (Bulletin of Univ. of Texas No. 356.)

BRANFORD. A study of Mathematical Education. Clarendon Press, Oxford. $1.25.
A work done by one of the inspectors of schools in England, giving some idea of the present reform movement in that country.

BRESLICH. Supervised Study as a Means of Providing Supplementary Individual Instruction. In the Thirteenth Yearbook of the National Society for the Study of Education, Part 1. University of Chicago Press. $0.80.
The best discussion of supervised study in mathematics obtainable.

BROOKS. Philosophy of Arithmetic. Sower, Potts. $2.50.
Although setting forth the educational ideals of a generation ago, this book is suggestive. It contains a considerable amount of interesting historical material.

CLIFFORD. Common Sense of the Exact Sciences. Appleton, $1.50.
A work by one of the best of England's mathematicians of the middle of the nineteenth century. It contains many suggestions as to the foundations of secondary mathematics.

BROWN and COFFMAN. How to Teach Arithmetic. Row, Peterson & Co. $1.25.
One of the best books on this subject.

CARSON. Mathematical Education. Ginn. $0.75.
A collection of very valuable essays. Should be owned by every teacher of secondary mathematics.

DEMORGAN. On the Study and Difficulties of Mathematics. Open Court Pub. Co. $1.25.
A reprint of a well-known work of the middle of the nineteenth century. While many of the problems have changed since DeMorgan wrote, the book is a valuable one for the teacher.

EVANS. The Teaching of High-School Mathematics. Houghton, Mifflin. $0.35.

HALSTED. On the Foundation and Teaching of Arithmetic. Open Court Pub. Co. $1.00.

MCMURRY. Special Method in Arithmetic. Macmillan. $1.00.
A suggestive work for the elementary teacher.

MORITZ. Memorabilia Mathematica. Macmillan. $3.00.
Mathematical quotations.

PERRY. England's Neglect of Science. Unwin. $1.25.
This book had much to do with the beginning of the present reform in the teaching of mathematics in England.

PERRY. Teaching of Mathematics. Macmillan. $0.70.
This gives a good idea of the so-called "Perry Movement" for making mathematics more practical.

POINCARE. Science and Hypothesis. Science Press. $1.50.
Contains chapters on the nature of mathematical ideas and of mathematical reasoning.

POINCARE. The Value of Science. Science Press. $1.50. Report of the National Committee of 15 on Geometry Syllabus. Reprinted from the Mathematics Teacher, Vol. V, No. 2, December, 1912.
Should be read by every teacher of geometry.

SCHULTZE. The Teaching of Mathematics in Secondary Schools. Macmillan.
An excellent book that contains much usable material.

SMITH, D. E. Teaching of Elementary Mathematics. Macmillan. $1.00.
Relates to the general field of arithmetic, algebra and geometry.

SMITH, D. E. Teaching of Arithmetic. Teachers College Bureau of Publications. $0.75.
Considers the important questions of the day in the teaching of arithmetic.

SMITH, D. E. Teaching of Geometry. Ginn. $1.25.
An extended treatment of the problem of teaching geometry. It is rich in suggestions for applied geometry. The question of basal propositions is considered, and the most important of these propositions are discussed.

STAMPER. History of the Teaching of Elementary Geometry. Teachers College Bureau of Publications. $1.50.
A valuable work, showing the changing point of view with respect to this subject, from the classical period to the present.

STAMPER. The Teaching of Arithmetic. American Book Co. $1.00.

STONE. The Arithmetical Abilities and Some Factors Determining Them. Teachers College Bureau of Publications. $1.00.
Tests for measuring the abilities of children in arithmetic.

WHITEHEAD. Introduction to Mathematics. Holt. $0.50.
Contains interesting and valuable discussions of important notions. Emphasizes the value of mathematics.

YOUNG, J. W. A. Lectures on the Fundamental Concepts of Algebra and Geometry. Macmillan. $1.60.
An excellent and readable treatise.

YOUNG, J. W. A. Teaching of Mathematics. Longmans. $1.50.
A scholarly treatment of the teaching of elementary and secondary mathematics.

YOUNG, J. W. A. Mathematics in the Schools of Prussia. Longmans. $0.80.
A brief survey of the work done in the best German schools, and a comparison of this work with that done in America.

BOOKS ON THE HISTORY OF MATHEMATICS

ALLMAN. Greek Geometry from Thales to Euclid. Longmans. $2.75.
A very scholarly treatment of the formative period of elementary geometry.

BALL. History of Mathematics. Macmillan. $3.25.
The best written general history of mathematics in English. It should be in every high school and public library.

BALL. Primer of the History of Mathematics. Macmillan. $0.65.
A compendium of the preceding work. If a school does not possess the larger work it should have this one.

CAJORI. History of Mathematics. Macmillan. $3.50.
A work somewhat after the style of Ball, with some material not given by the latter.

CAJORI. History of Elementary Mathematics. Macmillan. $1.50.
Also somewhat after the style of Ball. It should be in all high school libraries.

CONANT. Number concept. Macmillan. $2.00.
An interesting work on the early methods of counting, particularly as seen among savage people of today.

FINK. History of Mathematics. Open Court Pub. Co. $1.50.
A compendium of Cantor's great German history. It covers a wider field than Ball, but it is not written in so delightful a style.

Gow. History of Greek Mathematics. Clay (Cambridge Press). $3.00.
A book that should be in every high school and municipal library, and owned by every teacher of geometry. It is a very scholarly summary of the history of Greek mathematics.

MODERN LANGUAGES

In the French group, Professor John D. Fitz-Gerald, of the University of Illinois, presented a report on French and Spanish Library reference books for High Schools, which the group adopted and voted to publish. The list is as follows:

MINIMUM HIGH SCHOOL LIBRARY FOR TEACHERS OF FRENCH

One

Spier's & Surenne's French and English Dictionary. Appleton. $5.00.

Gasc. Library French and English Dictionary. Holt. $4.00.

One

Larousse. Dictionnaire pour tous, 2 vols. Stechert. $9.00, or

Hatzfeld, Darmesteter et Thomas. Dictionnaire Général de la langue française. 2 vols. Delagrave. $6.00.

One

Petit Larousse Illustre. Stechert. $1.50, or

Littre. Dictionnaire Abrégé de la langue française. Stechert. $4.00.

One

Lanson. Histoire de la littérature française. Hachette. $0.80, or

Abry-Audic-Crouzet. Histoire Illustrée de la littérature française. Didier. $1.10.

Brunetiere. Histoire de la littérature française classique. 3 vols. Delgrave. $4.50.

One

Wright, C. H. C. French Literature. Oxford. $3.00, or

Saintsbury, G. E. B. French Literature. 6th ed. Oxford. $2.60.

Hassall, Arthur. The French People. Great Peoples Series. Appleton. 1901. $1.50.

Fortier. Histoire de France. Macmillan. 1913. $0.90.

Rambaud. Histoire de la Civilization Francaise. 2 vols. 12th ed. 1911. Colin. $2.50.

MINIMUM HIGH SCHOOL LIBRARY FOR PUPILS OF FRENCH

EDGREN & BURNET. French and English Dictionary. Holt. $1.50.

One

DOWDEN. History of French Literature. (Literatures of the World.) Appleton. $1.50, or

KASTNER & ATKINS. Short History of French Literature. Holt. $1.25.

One

DOUMIC. Histoire de la littérature française. Delphane. 1909. $0.80, or

PELLISSIER. Précis de l'histoire de la littérature française. Delgrave. $0.70, or

GAZIER. Petite histoire de la littérature française. Colin. 1910. $0.90.

Livres roses pour la jeunesse. Larousse. Each set contains 24 small volumes. Per set, frs., 3.90.

Chansons de France pour les petits française. Plon. $2.00.

Petit Recueil de chants français à l'usage de l'école et de la famille; large edition. CARTER, H. Oxford. $1.50.

JOUSSET. La France, Géographic illustrée. 2 vols. Larousse. Frs. 68.00.

Set 100 stereoscopic views of France. Underwood & Underwood. $18.30.

U. Y. C. Stereoscope. $1.30.

MENPES, MORTIMER. Paris. A. & C. Black. $2.00.

Brittany. A. & C. Black. $2.25.

Normandy. Black's Beautiful Books. A. & C. Black. $2.50.

HOME, GORDON. France. A. & C. Black. $2.50.

French Table Game. Jenkins. $0.75.

MINIMUM HIGH SCHOOL LIBRARY FOR TEACHERS OF SPANISH

The New Velázquez Spanish and English Dictionary. Appleton. $6.00.

Diccionario de la Lengua Castellana Real Academia Española de la Lengua. Stechert. $8.50.

HUME. Spanish People. Appleton. 1901. $1.50.

BURKE, U. R. History of Spain to Ferdinand and Isabelle. 2 vols. Longmans. $5.00.

HUME. Spain: Its Greatness and Decay. Cambridge Hist. Series. Putnam. $1.50.

HUME. Modern Spain. Story of the Nations. Putnam. 1900. $1.50.

ALTAMIRA. Historia de España y de le Civilización Española. 4 vols. Gili. $5.00.

TICKNOR. Spanish Literature. 3 vols. Houghton. $10.00.

BLANCO, GARCIA. Literatura Española en el Siglo XIX. 3 vols. Murillo. $3.00.

WIGRAM, E. T. A. Northern Spain. A. & C. Black, Macmillan. $6.00.

CALVERT, A. F. Southern Spain. A. & C. Black, Macmillan. $6.00.

MINIMUM HIGH SCHOOL LIBRARY FOR THE PUPILS OF SPANISH

CUYAS. Spanish-English and English-Spanish Dictionary. Appleton. $2.50.

Pequeño Larousse Ilustrado. Larousse. $2.00.

FITZMAURICE-KELLY. Spanish Literature. Appleton. 1898. $1.50.

CLARKE, H. B. Spanish Literature. Macmillan. $1.60.

BATES, KATHARINE LEE. Spanish Highways and Byways. Macmillan. 1907. $2.00.

FITZ-GERALD, J. D. Rambles in Spain. Crowell. 1910. $3.00.

RODRIGUEZ, MARIN. Cantos populares españoles. $2.00.

BATES, KATHARINE LEE. In Sunny Spain. Dutton. 1913. $1.00.

Set of 100 Stereoscopic Views of Spain. Underwood & Underwood. $18.30. Stereoscope, $1.30.

DON QUIXOTE. Illustrated by Van Dyke. Motteux's Translation. 4 vols., de luxe. Clarkson, David B., 624-30 S. Wabash Ave., Chicago, Catalogue. $3.95.

THE MINIMUM LIBRARY FOR OUTSIDE READING IN GERMAN

SECOND YEAR

Third Semester

1. Kinderfreuden—Oxford Press $0.40
2. Bunte Geschichten—A. B. C ..... .25
3. Spyri, Rosenresli (for girls)—Heath ..... .30
4. Spyri, Moni der Geisbub—Heath ..... .30
5. Haertel, German Reader for Beginners—Ginn ..... .60
6. Der Zerbrochene Krug, Zschokke—Heath ..... .25
7. Storm, Immensee—A. B. C ..... .25
8. Die Schildberger—Heath ..... .30

9. Seeligmann, Altes und Neues—Ginn ..... .35
10. Moenchhausens Abenteuer—Heath ..... .30
11. Anderson, Bilderbuch ohne Bilder—Heath—Holt ..... .30
12. Grunow, Jung Deutschland—Ginn ..... .90

$4.30

Supplementary List

1. Till Eulenspiegel—Heath $0.30
2. Bacon's Vorwaerts—Allyn & Bacon ..... .80
3. Stolze, Lose Blaetter—A. B. C ..... .30
4. Mueller und Wenckebach, Glueck Auf—Ginn ..... .60
5. Fahsel's Allerlei—A. B. C ..... .25

Fourth Semester

1. Leander, Traeumereien—Holt or Heath $0.40
2. Grimm, Kinder und Haussmaerchen—Heath or A. B. C ..... .45
3. Auerbach, Brigitta—Ginn ..... .40
4. Carmen Sylvia, Aus meinem Koenigreich—Heath ..... .35
5. Storm, Geschichten aus der Tonne—Heath ..... .40
6. Hebel, Schatzkaestlein—A. B. C ..... .40
7. Kurz, Zwei Maerchen (girls)—Oxford Press ..... .50
8. Wieland der Schmid—Oxford Press ..... .40
9. Diedrich von Bern—Oxford Press ..... .40
10. Arnold, Fritz auf Ferien—Heath or A. B. C ..... .30
11. Stern, Aus Deutschen Dorfern—A. B. C ..... .35

$4.25

Supplementary List

1. Guerber, Maerchen und Erzehlungen—Heath $0.60
2. Valkmann, Kleine Geschichten—Heath ..... .30

THIRD YEAR

Fifth Semester

1. Lohmeyer, Der Geisbub von Engelberg—Heath $0.40
2. Heyse, L'Arrabiata—Heath or Holt ..... .35
3. Hillern, Hoeher als die Kirche—Merrill—Heath ..... .30
4. Rosegger, Das Holzknechthaus—Oxford Univ. Press ..... .35
5. Bluethgen, Das Peterli von Nuerenberg—Heath ..... .35
6. Storm, In St. Juergen—Ginn ..... .30
7. Storm, Auf der Universitaet—Holt ..... .35
8. Tales from Hauff—Ginn ..... .30
9. Seidel, Aus Goldenen Tagen (boys)—Heath ..... .35
10. Wildenbruch, Das edle Blut—any edition ..... .30

$3.65

Supplementary List

1. Keller, Legenden—Holt.....$0.30
2. Gerstacker, Irrfahrten—Holt or Heath..... .45
3. Eichendorf, Aus dem Leben eines Taugenichts—Holt..... .40
4. Der Weg zum Glueck—Heath..... .30

Sixth Semester

1. Hauff, Das Kalte Herz—Holt or A. B. C.....$0.35
2. Wildenbruch, Kindertraenen—Holt or Merrill..... .35
3. Heyse, Anfang und Ende—A. B. C..... .30
4. Four German Comedies—Ginn..... .45
5. Riehl, Das Spielmannskind, Der Stumme Ratsherr—A. B. C..... .35
6. Stern, Die Wiedertaeufer—Heath..... .40
7. Rogge, Der Grosse Preussenkoenig—Heath..... .45
8. Heyse, Die Blinden—Holt..... .40
9. Frenssen, Peter Moors Fahrt nach Suedwest—Holt..... .40
10. Mogk, Deutsche Sitten und Gebraeuche—Holt..... .35
11. Schwarzleute—Holt ..... .35
12. Rosegger, Lex von Gutenhag—Heath..... .40
13. Rosegger, Waldheimat—Heath or Holt..... .35

Supplementary List

1. Heyse, Das Maedchen von Treppi—Holt.....$0.35
2. Keller, Dietegen—Ginn..... .25
3. Seidel, Leberecht Huenchen—Merrill or Heath..... .30
4. Stern, Geschichten von Rhein—A. B. C..... .85
5. Fouque, Undine—A. B. C..... .50

FOURTH YEAR

Seventh Semester

1. Saar, Der Steinklopfer—Holt.....$0.35
2. Sudermann, Frau Sorge—Heath or Holt..... .90
3. Baumbach, Der Schweigersohn—Heath or Holt..... .90
4. Hoffmann, Iwan der Schreckliche—Oxford Press..... .60
5. Freytag, Doktor Luther—Ginn..... .45
6. Raabe, Else von der Tanne—Oxford Univ. Press..... .50
7. Raabe, Die Schwarze Galeere—Oxford Univ. Press..... .60
8. Thiergen, Am Deutschen Herde—Ginn..... .50
9. Riehl, Burg Neidech—Any edition..... .35
10. Freytag, Die Journalisten—Holt..... .35

$5.00

Supplementary List

1. Frenssen, Joern Uhl—Heath.....$0.90
2. Keller, Die drei gerechten Kammacher—Heath..... .35

3. Moltke, Die Beiden Freunde—Holt $0.35
4. Schiller, Die Jungfrau von Orleans—A. B. C. or Holt ..... .70
5. Lessing, Minna von Barnhelm—Ginn ..... .45
6 Meyer, Der Schuss von der Kanzel—Ginn ..... .35
7. Keller, Dietegen—Ginn ..... .25
8. Riehl, Die Vierzehn Nothelfer—A. B. C ..... .30

Eighth Semester

1. Goethe, Hermann und Dorothea (best edition, Merrill) $0.60
   Holt ..... .40
2. Goethe, Goetz von Berlichingen—Holt ..... .70
3. Goethe, Werthers Leiden—Heath, Oxford Univ. Press ..... .60
4. Heine, Die Harzreise—Ginn ..... .40
5. Max Mueller, Deutsche Liebe—Ginn ..... .45
6. Grillprazer, Sappo—Ginn ..... .45
7. Ludwig, Der Erbfoerster—Holt ..... .50
8. Sudermann, Die Heimat—Heath ..... .35
9. Freytag, Soll und Haben—Heath ..... .55

$4.40

Supplementary List

1. Lessing, Emilie Galotti—Holt ..... .40
2. Stifter, Grigitta—Oxford Univ. Press ..... .40
3. Spielhagen, Das Skellett im Hause—Heath ..... .45
4. Kleist, Michael Kohlhaas—Holt ..... .50
5. Kleist, Prinz Friedrich von Homburg—Ginn ..... .50
6. Raabe, Eulenpfingstein—Heath ..... .45
7. Hebbel, Agnes Bernauer—Heath ..... .50
8. Ludwig, Zwischen Himmel und Erde—Heath ..... .55

MUSIC

The selection of books for music should contain the following classes:

Musical History:

BALTZELL, W. J. Complete History of Music. (Excellent, concentrated). 1905. Presser. $1.75.

COOKE, J. F. Standard History of Music. (Easy reading for high school). 1910. Presser. $1.25.

FILLMORE, J. C. Lessons in Musical History. (Very good). Presser. $1.50.

MATHEWS. Popular History of the Art of Music. (Good, but old). 1906. Summy. $2.00. Supp. $0.75.

HAMILTON, C. G. Outlines of Musical History, rev. and enl. (Heavy— requires much outside reading). 1913. Dutton. $1.50.

PRATT, W. S. History of Music. Schirmer. $2.50.

HENDERSON, W. J. How Music Developed. 1898. Stokes. $1.25.

Dictionary of Musical Terms:

BAKER, T. Dictionary of Musical Terms, 15th ed. 1913. Schirmer. $1.00.

Dictionary of Musicians:

BAKER, T. Biographical Dictionary of Musicians, 2nd ed. (Deals more with foreign composers). Schirmer. $3.50. Supp. $0.25.

BALTZELL, W. J. Dictionary of Musicians, rev. and corrected to May 1, 1914. (Deals more with American composers). 1914. Ditson. $1.25.

Stories of Opera-Law:

UPTON, G. P. Standard Operas, new ed., enl. and rev. 1913. McClurg. $1.75.

UPTON, G. P. Standard Oratorios, 12th ed. McClurg. $1.50.

GUERBER, H. A. Stories of the Wagner Operas. Dodd. $1.50.

GUERBER, H. A. Stories of the Famous Operas. Dodd. $1.50.

SINGLETON, ESTHER. Guide to Modern Opera. 1909. Dodd. $1.50.

KREHBIEL, H. E. Book of Operas. 1909. Macmillan. $1.75.

General Theory:

Erb, J. L. Elements of Harmony. 1911. Conservatory Press (for Music Students). Wooster, Ohio.

McConnell, M. F. Some Essentials in Musical Definition. 1909. Ditson. $1.00.

Logan, M. S. Musicology. Hinds. $1.50.

Schwartz, G. F. Catchism of Harmony. White-Smith Music Publishing Co. Pa. $0.50.

Gehrkens, K. W. Music Notation and Terminology. 1914. Barnes. $1.50.

Maryott, H. B. Musical Essentials. 1907. Church. $1.00.

Biographies:

Mason, D. G. From Grieg to Brahms. Macmillan. $1.25.

Mason, D. G. Beethoven and His Forerunners. 1904. Macmillan. $1.50.

Erb, J. L. Brahms. 1905. Dutton. $1.25.

Upton, G. P. Standard Musical Biographies. 1910. McClurg. $1.75.

Who's Who in Music. Current Literature Publishing Co. 2nd ed. Pitman. $2.50.

The Blue Book. (Gives in concise form the activities of leading American musicians.) Blue Book Publishing Co.

The Autobiography of Wagner. 2 vols. Constable & Co. $8.00.

Presser. Year Book for Music Teachers. (A daily help; contains unusual and valuable data.) $0.10.

Tapper, Thomas. First Studies in Music Biography. Presser. $1.50.

Hughes, Rupert. Famous American Composers. Page. $1.50

Mathews, W. S. B. The Masters and Their Music. Presser. $1.50.

Elson, Louis C. Great Composers and Their Work. Page. $1.50.

Elson, Arthur. Modern Composers of Europe. Page. $1.50.

Rowlands, W. Among the Great Masters of Music. Estes. $1.50.

Streatfeild, R. A. Life Stories of Great Musicians. Presser. $1.50.

Neumann, A. Personal Recollections of Wagner. Holt. $2.50.

Gilman, Lawrence. A Biographical Study of MacDowell. 1908. Lane. $1.50.

WASIELEWSKI, J. W. Life of Robert Schumann. Ditson. $1.25.
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INDY, V. d'Beethoven. 1913. Boston Music Co. $1.25.
SCHINDLER. Beethoven.

Church Music:

ERB, J. L. Hymns and Church Music. Conservatory Press for Music Students. Wooster, Ohio. 1911. $0.75.

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Bridal Chorus (The Rose Maiden). Cowen.
By Babylon's Wave. Gounod.
Blow, Soft Winds. Vincent.
Chorus of Peers (Iolanthe). Sullivan.
Claude Duvall. Molloy.
Come Away. Parker.
Carmena Waltz. Wilson.
Country Fair Waltz Song. Abt.
Clang of the Forge. Rodney.
Festival Chorus. Bach.
Good Night, Good Night, Beloved. Pinsuti.
Gloria (12th Mass). Mozart.
Hunting Chorus, from King Arthur.
How Lovely Are the Messengers. Mendelssohn.
Hark, Hear the Trumpets. Bizet.
Haste to the Fair. Flotow.
Hail, Bright Abode. Wagner.
He Watching Over Israel. Mendelssohn.
In the Time of Roses. Reichardt.
I Know a Bank. Horn.
Invitation to the Dance. Von Weber.
Italia Beloved. Donizetti.
I Waited for the Lord (Hymn of Praise). Mendelssohn.
Inflammatus et Accensus. Rossini.
Lullaby. Brahms.
Largo. Handel.
Miserere (Trovatore). Verdi.
Mammy's Lullaby (Humoreske). Dvorak.
March of Toreadors (Carmen). Bizet.
Night Hymn at Sea. Goring, Thomas.
Oh, for the Wings of a Dove. Mendelssohn.
Olaf Trygvasson. Grieg.

Out on the Deep. Lohr.
O Gladsome Light. Sullivan.
Pirates' Chorus. Sullivan.
Pilgrims' Chorus, Tannhauser. Wagner.
Red Scarf. Bonheur.
Song of the Triton. Molloy.
Send Out Thy Light. Gounod.
Soldiers' Chorus, Faust. Gounod.
Song of Vikings. Faning.
Song of Rest. Bach.
Sleep While the Soft Evening Breezes. Bishop.
The Evening Wind. Saint-Saens.
The Erl King. Schubert.
The Sea Hath Its Pearls. Pinsuti.
Two Grenadiers. Schumann.
The Recessional. Huss.
The King of Love My Shepherd Is. Gounod.
The Miller's Wooing. Faning.
The Heavens Resound. Beethoven.
The Stormfiend. Roeckel.
Unfold, Ye Portals. Gounod.
Waltz and Chorus, Faust. Gounod.
Welcome, Pretty Primrose Flower. Pinsuti.
Where Are You Going to? Caldicott.
With Sheathed Swords. (Naaman). Costa.

II. BOYS' GLEE CLUB

A Little Farm Well Tilled. Hook.
Come Erlong, Honey. Andrews.
Carry Me Back to Old Virginny. Bland.
Father, Again to Thy Dear Name. Hopkins.
Hail, Smiling Morn. Spofforth.
Ho, Jolly Jenkins. Sullivan.
In Lighter Vein. Carrie Adams.
In a Gondola. Meyer-Helmund.
Lullaby. Brahms.
My Dearie. Silcher.
Oh Lord, How Manifold. Nevin.
Sally in Our Alley. Roeckel.
Six Limericks (Unison). Manning.

Skippers of St. Ives. Roeckel.
The Radiant Morn Hath Passed Away. Woodward.
The Long Day Closes. Sullivan.
The Sea Hath Its Pearls. Pinsuti.
The Sweetest Flower. Nevin.
The Stormfiend. Hoeckel.
Tinkers' Chorus, from Robin Hood. De Koven.
Unfold, Ye Portals (Redemption). Gounod.
Where Are You Going to? Caldicott.
Winter Song. Bullard.

III. GIRLS' GLEE CLUB

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